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The



CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3155
VOL. CXXXIII

JULY 27, 1940

Annual Subscription (with
Diary) 25/- Single Copies 9d.

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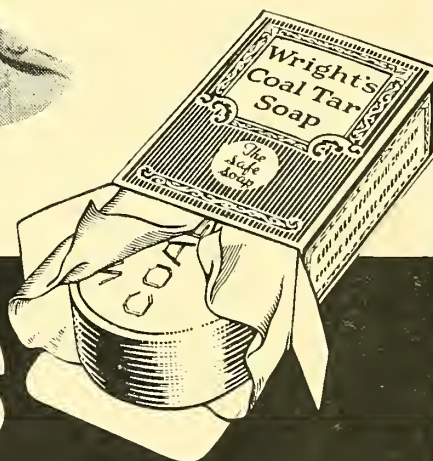
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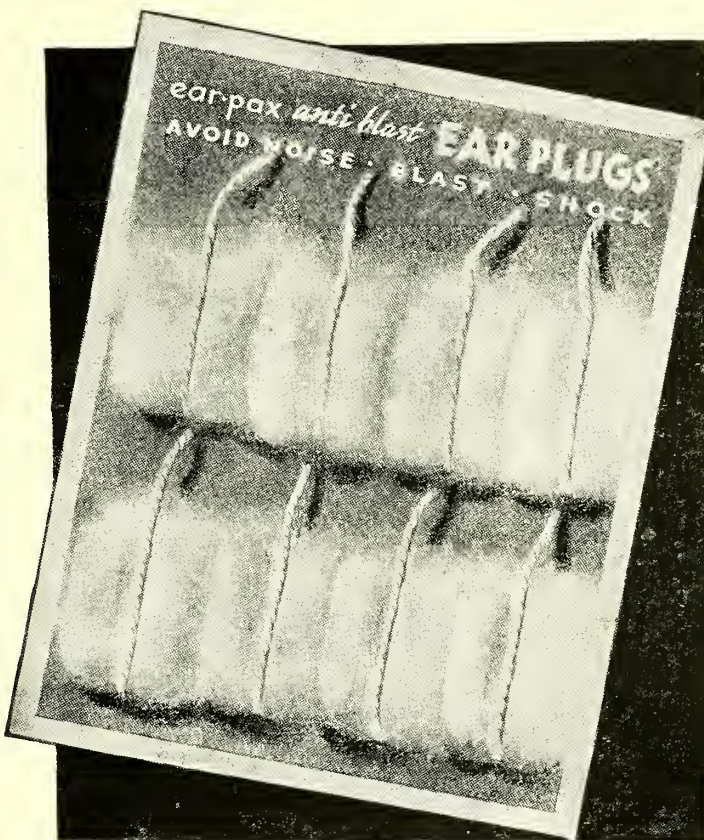
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Extract from Page 24 “Your Home as an Air Raid Shelter” issued by the Ministry of Home Security.

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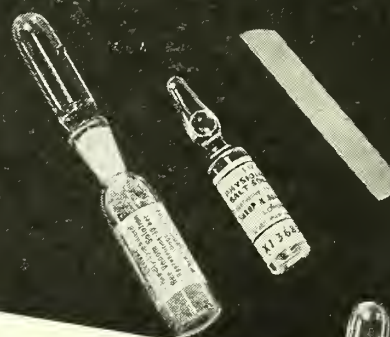
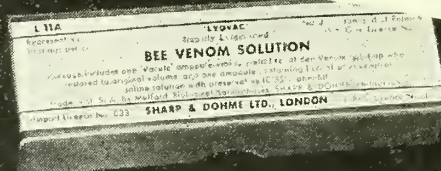
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¹ South. Med. & Surg., 100:555, Nov., '38
² Nebraska M. J., 24:298, Aug., '39

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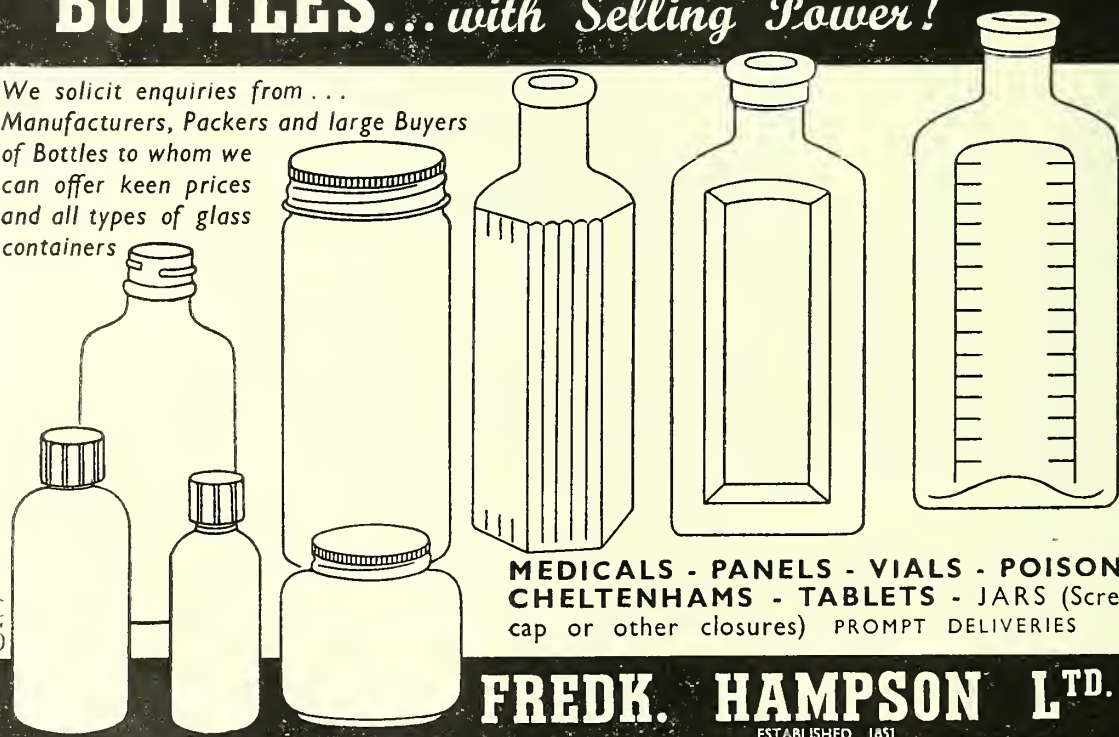
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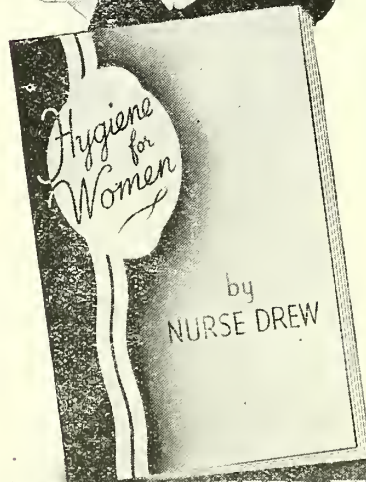
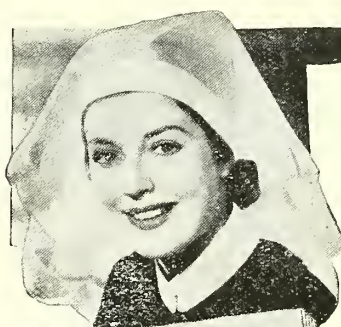
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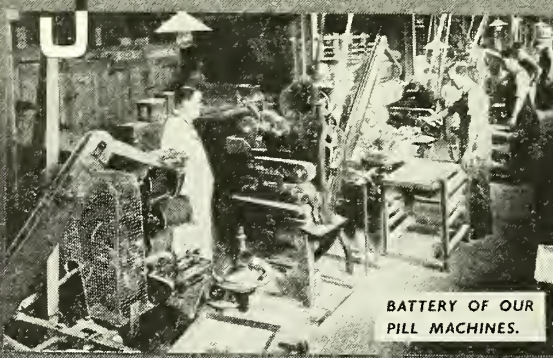
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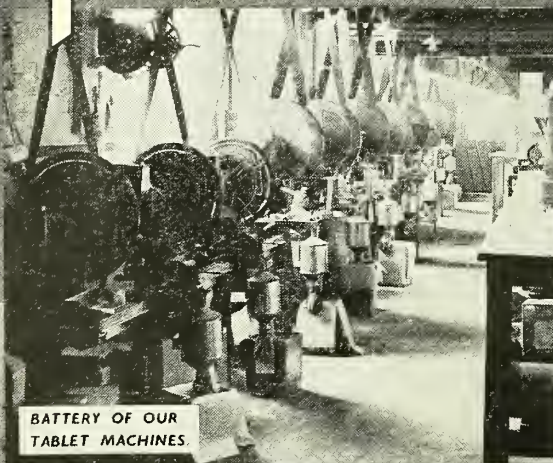
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The "Iodab" is sturdy, efficient, and much cheaper than hair pencils



817 ^w/_w

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WHITE	2/10	3/2	3/10 doz.
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promise you that all your future orders will be promptly filled.

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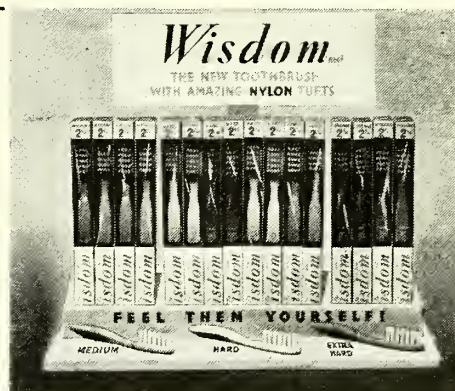
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INTRODUCTORY
ORDER FOR
6 DOZEN —
A BEAUTIFUL
DISPLAY
DEMONSTRATOR**

★

**Only 500
more available**



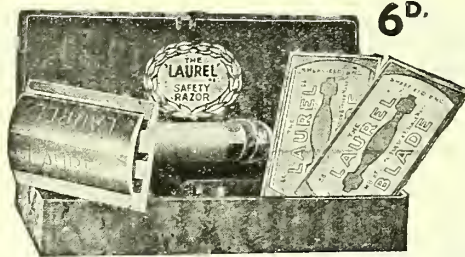
Wisdom

REGD.

THE TOOTHBRUSH WITH NYLON TUFTS

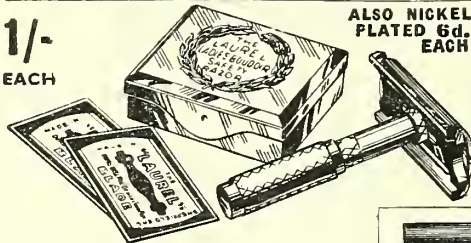
MADE BY ADDIS. ESTABLISHED 1780 — MAKERS OF THE FIRST TOOTHBRUSH

SHAVE WITH A "LAUREL"



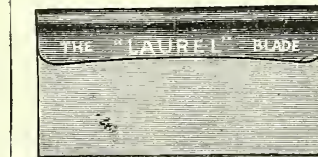
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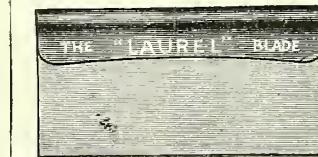


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SAFETY RAZOR
COMPLETE WITH TWO BLADES AS
ILLUSTRATED

ALSO NICKEL
PLATED 6d.
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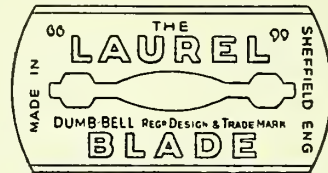
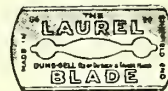
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THE "LAUREL" BLADE

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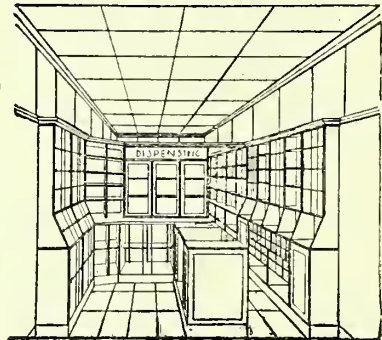
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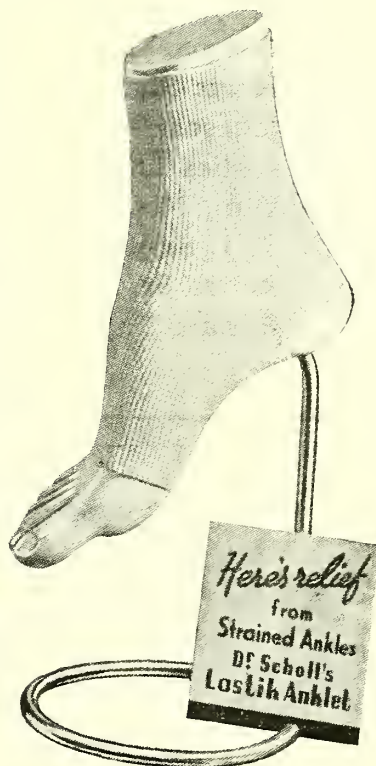
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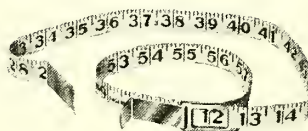
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Please note that as and from August 1st all Medical and Surgical Plasters manufactured by the following Companies will be sold to both Wholesalers and Retailers on a strictly NETT basis, and no settlement discount will be allowed. The Quantity Discounts to Retailers will continue as previously.

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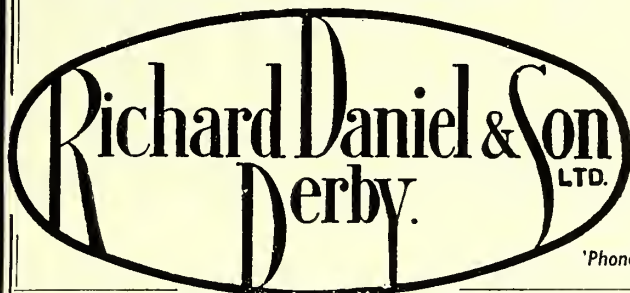
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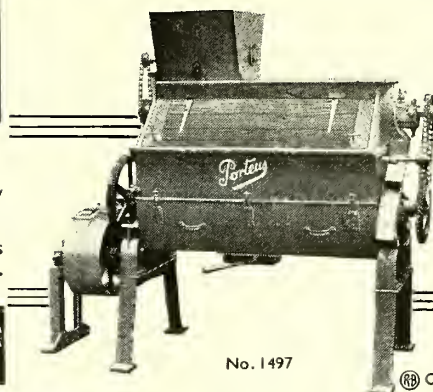
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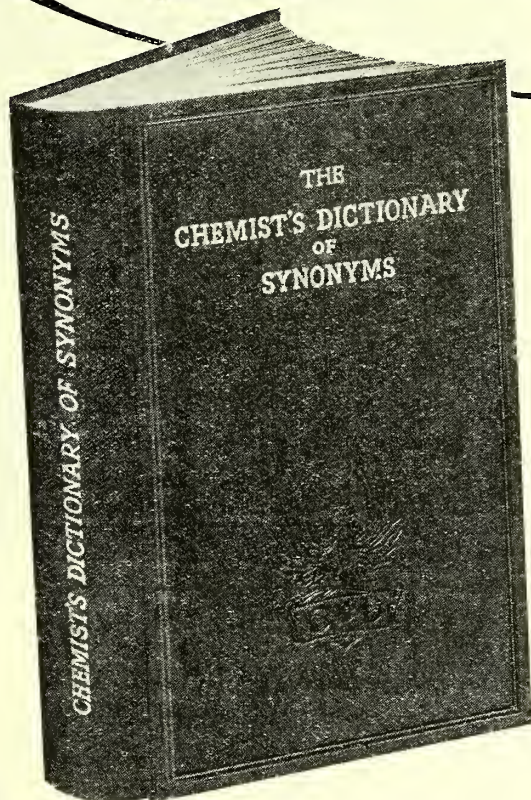
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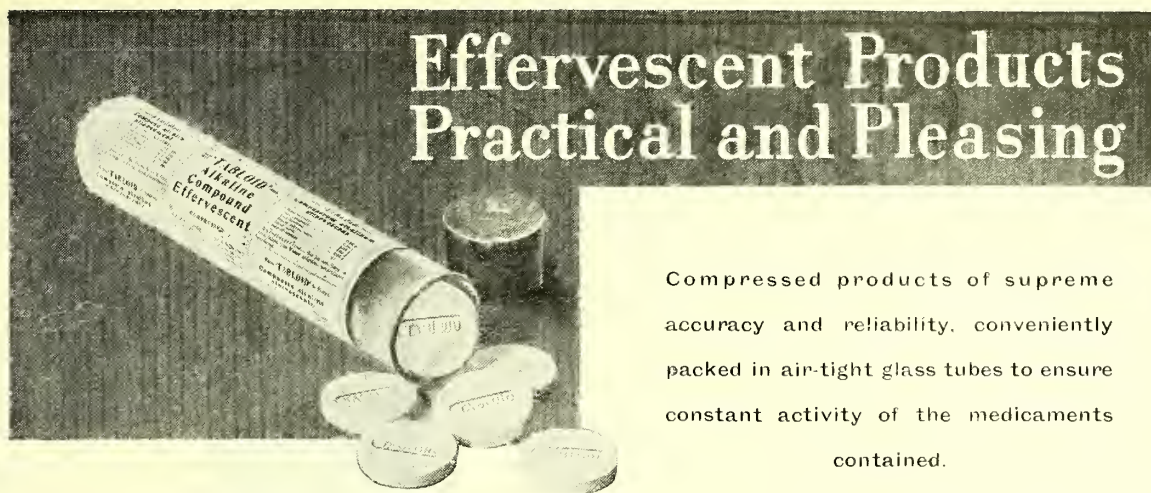
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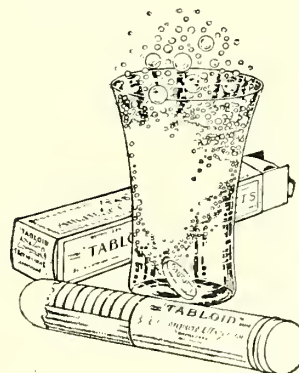
R
Potassii Bromidi, 0.4 gramme
(gr. 6 $\frac{1}{4}$ approx.)
Sodii Bromidi, 0.4 gramme
(gr. 6 $\frac{1}{4}$ approx.)
Ammonii Bromidi, 0.2 gramme
(gr. 3 approx.)
Salis Effervescentis, q.s.

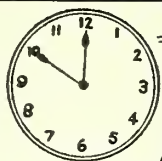
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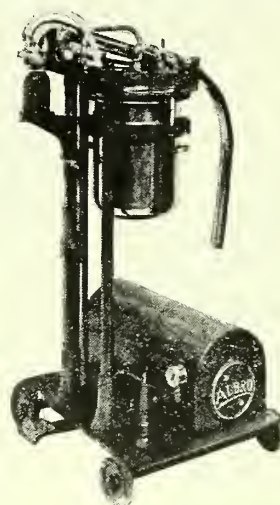
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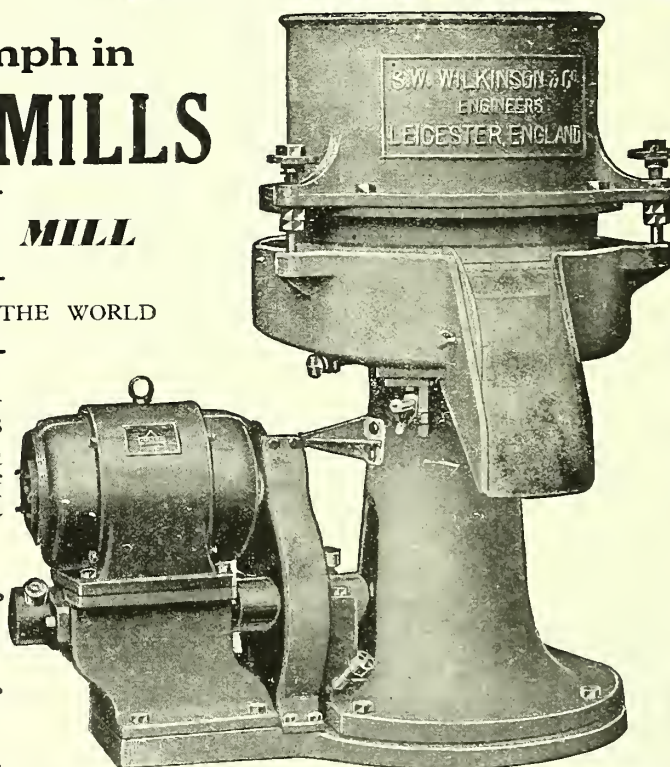
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NEWS OF THE WEEK

Magnesia Export Group.—An export group has been formed: *Chairman*, Mr. R. J. Raeside; *Secretary*, Mr. P. R. Prescott; address, Washington Chemical Co., Washington Station, co. Durham.

Control of Magnesium.—The Control of Magnesium (No. 1) Order, 1940, which came into force on July 23, provides that magnesium and its alloys shall not be bought, sold or used except under licence.

Control of Exports.—The Board of Trade have issued the Export Goods (Control) (No. 25) Order. The changes of interest to the trade made by the Order are: In Group 13, insert calcium arsenate A, lead arsenate A, and sodium arsenate A.

Control of Tins and Cans.—The Minister of Supply issued on July 23 the Control of Tins and Cans (No. 1) Order, 1940, prohibiting the manufacture of containers made of tin and metal for certain uses of goods, including cosmetics, toilet preparations and articles, pills, tablets, and certain invalid foodstuffs. Metal containers, of certain sizes yet to be specified, are to be permitted for medical, pharmaceutical and general chemicals. Details are given in an editorial article on p. 43 of this issue.

Pharmacy and Poisons Act.—An Order in Council, S.R. & O. 1217, made on July 10. It modifies two sections of the Pharmacy and Poisons Act, 1933, as follows:—

- (a) The provisions of subsection (1) of section twenty-three of that Act requiring that rules under that section shall be made only after consultation with or on the recommendation of the Poisons Board; and
- (b) the provisions of subsection (2) of section twenty-six of that Act requiring that, if the Secretary of State makes any such rules as aforesaid with which the said Board does not concur, he shall lay before each House of Parliament a statement of his reasons for making the rules;

and shall not apply to any such rules as aforesaid which appear to the Secretary of State to be expedient for facilitating the destruction of vermin and pests for the purpose of preventing damage to crops, trees, buildings, sturges, fences, banks or works.

Antitoxins, Antiserums and Tuberculin.—The international standards for serums and bacteriological products are held, on behalf of the health organisation of the League of Nations, by the State Serum Institute, Copenhagen, from which samples have hitherto been furnished to laboratories, institutions and research workers requiring them in different countries. That supply being now interrupted, the health organisation of the League has requested the Medical Research Council to allow samples of the British Standards for these products, held at the National Institute for Medical Research, Hampstead, London, to be furnished to those who have hitherto received the international standards from Copenhagen. The Medical Research Council has agreed to make this arrangement to meet the emergency, and to prevent the complete interruption of this international service. The British standards in question are either part of the same materials as those kept as international standards in Copenhagen, or have been repeatedly verified by the British and Danish institutes, to ensure that the units determined in terms of the British standards are exactly equivalent to the international units. The standards available are:—

- (1) Identical in material with the international standards: staphylococcus antitoxin; gas-gangrene antitoxins:—(perfringens), (B. vibron septique), (oedematiens), (histolyticus); antidyentery serum (shiga); antipneumococcus serums (type I and type II); old tuberculin.

(2) Difference in material, but with identity of the unit indication confirmed twice a year at Copenhagen and Hampstead:—Diphtheria antitoxin; tetanus antitoxin. The National Institute at Hampstead will also supply, on request, a standard solution of diphtheria antitoxin for use in the flocculation test.

The stocks of these standards held at Hampstead are adequate to

meet all demands, with the exception of the standards for antipneumococcus serum, type I and type II. The remaining stocks of these two standards are low, both at Copenhagen and Hampstead, and it is requested, therefore, that demands for them will be restricted to essential needs. It is further requested that, in order to conserve the stocks of these standards so far as possible, laboratories will co-operate with the Hampstead Institute by establishing local laboratory standards for these two antipneumococcus serums, type I and type II, the potency of which has been determined by comparative tests made with the relevant international standard preparation. Former recipients of the international standards, who wish to be supplied during the interruption of the issues from the Copenhagen Institute, should make immediate application, stating which of the standards they require, and how many bottles in each case, to the Department of Biological Standards, The National Institute for Medical Research, Hampstead, London, N.W.3, England. On receipt of this information the required supplies will be dispatched at once. Thereafter, further samples of the required standards will be furnished at regular half-yearly intervals.

Ships' Medical Scales.—The Ministry of Shipping has issued Notice No. M. 188 adding sulphapyridine, sulphanilamide, and hypodermic tablets of morphine sulphate or hydrochloride to Ships' Medical Scales. The notice, which is to owners and masters, is as follows:—

SCALE I.—DRUGS

Article	Quantities for ships making voyages not exceeding thirty days with passengers and crew not exceeding:—			
	99	250	500	1000
(p) Sulphapyridine	tablets	tablets	tablets	tablets
(p) Sulphanilamide and its equivalents	100	150	200	300
	100	150	200	300

SCALE II.—MEDICINES

Article	Proportion for ships carrying the under-mentioned number of men and boys (for twelve months).		
	Under 25 men	26-50 men	Over 50 men
Hypodermic tablets:—			
(p) Morphine hydrochloride or sulphate tablets of one-quarter grain each	8 tablets	16 tablets	32 tablets

These tablets are for use only to relieve men in extreme pain, and not more than two should be placed under the patient's tongue and allowed to dissolve. They will not take effect for 10-15 minutes. One tablet may be repeated, if necessary, not less than three hours later.

A note of the number of tablets and the time they were given should always go with the patient when he is landed or otherwise removed from the care of the Master.

Orders for supplies of the tablets must be signed by the Master, and not by a deputy.

Notes.—(1) (p). The prefix "p" indicates that these articles are to be marked with red poison label and kept in separate locker under lock and key.

(2) The addition of morphine tablets to Scale II is a war-time measure only.

IRELAND

Business Change.—Miss H. M. Ryan, M.P.S.I., will shortly open a new pharmacy at 43 Grand Parade, Cork.

Tea Allocation for Eire.—The Ministry of Food has granted permits for the export of the equivalent of one week's supply of tea to Eire.

THE NEW PURCHASE TAX

THE following extracts are taken from the Chancellor of the Exchequer's statement on the modified form of Purchase Tax, as given in the official "Parliamentary Debates."

The taxable field may be taken as being about £600,000,000 at wholesale prices.

Exemption is given in the case of certain medicines and medical appliances. We spend many millions annually on medicines of differing quality and differing necessity, but there are certain drugs and medicines which have to be taken for long periods and sometimes, as in the case of diabetic patients, for life. The prime cost in such cases is heavy and therefore we provide that in those cases there shall be complete exemption from the tax.

Under the new plan there will be a high rate of tax on the purchase of goods which are either luxuries or goods which in the hard circumstances of war we can either do without or of which we can at least postpone the replacement. That rate of tax will be one-third of 33½ per cent. on the wholesale value, representing about 24 per cent. on retail prices. The type of goods covered by this higher rate of tax will include luxuries like furs, articles made with real silk, lace, china and porcelain articles, cut glassware, fancy goods, jewellery, toilet preparations including cosmetics.

In addition there will be a schedule of goods at a much lower rate of duty. This rate will be one-sixth, or 16⅔ per cent. on the wholesale value, representing about 12 per cent. on the retail prices. There will be included in the lower-rate schedule articles like clothing, boots and shoes, other than children's clothing, boots and shoes, which are completely exempted, and other than certain types of such articles of a luxury category, which will be liable to the higher rate of duty.

In addition I propose to include at the lower rate medicines and drugs other than those completely exempt; and finally newspapers, periodicals and books.

The introduction of the two rates will require another substantial change from the present bill. I propose to schedule goods which are liable to tax showing the types of goods liable to the full duty and those liable to the half duty respectively. The class of goods on which the duties are falling will thus be defined and this will be of considerable advantage to traders. I also propose to make certain simplifications in the machinery of registration. I might perhaps say that I have also examined again with care the method by which the tax is to be imposed.

Only after careful consideration was it decided that it should take the form of a merchant sales tax which should be applied normally when goods pass from the wholesaler to the retailer.

The resolutions to be put from the chair to-day will include a new resolution to impose the tax as from a date to be fixed by Treasury Order, at rates of one-third and one-sixth respectively on articles to be specified in the necessary legislation. The existing Purchase Tax Bill will then be withdrawn and the provisions of the new scheme will be included in the ordinary way in the forthcoming Finance Bill. The tax cannot operate until the preliminary process of registration has been completed, but I see no reason why that should occupy more than a month or two.

TOPICAL REFLECTIONS

Tea and Tar.—If the ingenious advocate of aqua picis (presumably drunk hot) as an alternative to tea (p. 33) seriously intends to popularise it, he will probably have a long row to hoe. I have no means at hand of checking the writer's statement that the phrase "the cup that cheers" was applied originally to tar water, but I take leave to doubt it. Many of your readers will have recognised in the formula given the hand of Bishop Berkeley of Cloyne, who in 1744 issued a thirty-two-page pamphlet entitled "The Medicinal Virtues of Tar Water Fully Explained . . ." and promptly followed it up with a book eventually translated into various languages. The first edition of the book bore the comprehensive title "A Chain of Philosophical Reflexions and Inquiries Concerning the Virtues of Tar-Water, And divers other Subjects connected together and arising one from another." Berkeley had picked up the idea of the solution in the course of missionary work among American Indian tribes: in his book he fortified his position with quotations from Plato, Pliny and other authors, and made a systematic use of analogy. In a postscript to the recipe he uttered a caution against profiteering: "It's greatly feared, that some Persons, for a little gain, will make more of the Water than the Bishop orders, which they ought to be caution'd against."

"Epidemical Madness."—The sudden (though transient) vogue of Berkeley's panacea owed something to his personal popularity. The reactions of the medical profession to his propaganda were, as might have been expected, hostile. One pamphlet was headed "A Cure for the Epidemical Madness of drinking Tar Water, Lately imported . . ." It was not difficult, on reading the extensive claims made by the learned bishop, to show that those claims were to some extent incompatible. The water was, according to one humorous critic, "at once Salt and

REGISTRATION OF CHEMISTS

An Order has been made requiring persons with qualifications in chemistry, physics and quantity-surveying to apply for registration in the Central Register. The Order came into force on July 20 and applies to all persons (including aliens) not serving in the Armed Forces (excluding the Home Guard) who are covered by the definitions, but not to persons already enrolled on the Central Register either directly or through their professional institutions. The specified classes include:—

1. (a) A person who has taken an honours degree of any university of the British Empire in chemistry, or the Associateship (or Fellowship) of the Institute of Chemistry, or a qualification which is recognised as equivalent to any of the foregoing, and who is normally engaged in chemical practice or chemical industry, including research, production, development, management, control, consulting or analytical work, and post-graduate study.

(b) A person who has taken a Bachelor of Science degree of an university of the British Empire including chemistry as a finals subject and has been normally engaged in chemical practice for the two years immediately preceding the date of the coming into force of this Order or immediately preceding any subsequent date.

(c) A person who has passed the Intermediate examination of an university of the British Empire for the degree of Bachelor of Science or who has obtained a Higher School certificate including chemistry, the Higher National certificate in chemistry, or the Scottish Education Department Group Leaving certificate including chemistry, and has been normally engaged in chemical practice for the five years immediately preceding the date of the coming into force of this Order or immediately preceding any subsequent date.

(d) A person who has taken an honours degree of any university of the British Empire in chemistry and (a) is normally engaged in teaching chemistry at a university, university college or technical college, or (b) being under thirty years of age, has been normally engaged in the teaching of chemistry in schools for not more than five years since obtaining the said degree.

2. A person who has obtained an honours degree in physics of an university of the British Empire and who is normally engaged as a physicist at any university or in any industry or as a teacher of physics.

The following passages are from a statement issued by the Pharmaceutical Society:—

Certain chemists and others were required to apply before July 20 for application forms for enrolment on the Central Register of the Ministry of Labour. The requirement applies to the above persons only if they are normally engaged in chemical practice. It would not, for example, apply to those who are engaged in pharmaceutical practice, e.g. in pharmacies, hospitals or the pharmaceutical (as distinct from chemical) laboratories of manufacturing houses. The Order does not apply to persons enrolled on the Central Register, either directly or through any professional institution such as the Pharmaceutical Society. Nevertheless those included within the Order who are already registered with the Society may, if they desire to do so, also register themselves under the Order. Those already registered with Society should write on their application form "already registered with Pharmaceutical Society."

Spirit; Soap and Balsam; Oil, Vinegar, and Sunshine . . . a Storachick and a Pectoral; a Restorative and a Diuretick; an Anti-hysterick and a Balsamic; an Attenuant, Detergent and Diaphoretick; a Purgorick and Deobstruant; a Purge and an Astringent; a Cooler and Cordial. . . . And lastly . . . it will save us the Expence of Guaiacum . . . of Chalybeate Waters, Wine, Ale and Brandy, Genzeng, Soap Opium and Good News, the surest and most pleasing of all Cardiacs."

Minerals in Nutrition.—Those of your readers who cater for veterinary requirements will note the useful facts in "Mineral Supplement for Livestock" (p. 34). The modern farmer may read his trade journal more systematically than his predecessor in the farm, who usually, fear, treated such "book learning" with contempt; but he is not so well informed to disregard hints from a chemist in business if the hints are knowledgeable. Research workers have been engaged for some time past on investigations into the bearing of soil constituents on animal nutrition and the prevention of disease; it cannot be doubted that the long run a more adequate conception of the problems of animal feeding will result. The use of small proportions of cobalt chloride in the anæmia called "pine" is of significance as a case in point. The whole subject has a wider application. The rôle of minute quantities—sometimes mere traces—of mineral ingredients in foods is often obscure but it is probably more important than most dieticians have realised. We have all become familiar with the addition of a copper salt to ferro-carbonate in the treatment of anæmia, though its practical value has not yet been finally assessed. The paragraph on manganese in your article reminds me of numerous references to it in "Pharmaceutical Formulas." It may have its adherents but I question whether it has made much therapeutic headway in the last half-century. **Xrayser**

COMPANY NEWS

P.C. means Private Company and R.O. Registered Office

BERDINIA BEAUTY AIDS, LTD. (P.C.).—Capital £100. Objects: To carry on business as beauty specialists, etc. R.O.: 28 Bruton Street, London, W.1.

ELECTROZONE, LTD. (P.C.).—Capital £100. Objects: To carry on business of manufacturers of an dealers in ozone, ozonators, etc. R.O.: 10 Dale Street, Liverpool.

MOORSIDE MILLS, LTD. (P.C.).—Capital £1,000. Objects: To carry business as manufacturers of and dealers in medicated cotton wool. Solicitors: Abbott & Co., 3 and 4 Clement's Inn, London, W.C.2.

E. W. MANN, LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a scientific instrument maker carried on as "E. W. Mann" Mary E. Mann at 61 Farringdon Road, London, E.C.1. R.O.: Farringdon Road, London, E.C.1.

DISINTEGRATORS, LTD. (P.C.).—Capital £1,000. Objects: To carry business as general and analytical chemists, etc. A. O. Burton, for J. W. Henderson, J. J. A. Talbot and R. D. Knight, directors. R.O.: 24 Caledonia Street, King's Cross, London, N.1.

EVANS SONS LESCHER & WEBB, LTD.—Mr. E. P. H. Lescher, having volunteered for military service, has resigned his position as director of the company.

MONSANTO CHEMICALS, LTD.—Mr. A. D. DAYSH, M.P.S., has been elected to the board. He has been associated with the firm for twenty years, for a period as manager of the London office and for the past ten years as sales manager.

Private Arrangement.—C. F. ADAMSON, M.P.S., The Arcade, Colwyn Bay. At a recent meeting of creditors the statement of affairs disclosed liabilities of £602; after allowing preferential claims £16, net assets were £518 (a deficiency of £84). The principal assets were stock-in-trade, £450, and household furniture, £50. Prior to previously traded in partnership with a relative, but since 1934 continued the business on his own account. In the year to March 1938, the sales were £1,932 (net profit £102), whilst in the following twelve months there was a net profit of £147 on a turnover of £1,931. For the twelve months to March 1940 were £1,199, and since April 1, 1940, they had been £123. It was decided that a deed of arrangement already executed to Mr. P. G. Gadd as trustee should be affirmed. A committee of three creditors was also appointed.

PARLIAMENTARY NEWS

Saccharin Distribution.—Sir R. Gower asked the Parliamentary Secretary to the Ministry of Food on July 18 whether he was aware that, owing to import restrictions, the manufacture and distribution of saccharin in this country were virtually a monopoly, and what steps he was taking to secure equitable distribution of the available saccharin?

Mr. Boothby: I am aware that the import of saccharin, except under licence, is prohibited. Imports, however, before the war constituted only a small proportion of the total consumption. The distribution of saccharin to the various classes of user is kept constantly under review, and if my hon. Friend has knowledge of any cases of inequitable distribution I shall be glad to look into them.

Vitamin B₁ in Bread.—In the course of a statement in the House of Commons on July 18 the Parliamentary Secretary to the Ministry of Food made the following reference to vitamin B₁: The main objection to white flour is that it is lacking in the vitamin content of wholemeal flour, and this is a difficulty we intend to overcome by fortifying white flour with vitamin B₁. In addition, we have decided to introduce into white loaf a small quantity of calcium salt. It will take some months, however, before there is a sufficient supply of B₁ to fortify the entire bread supply of this country, but when that time arrives the public will be given a choice of fortified white bread or wholemeal bread at the same price, and each consumer will be free to purchase bread of one or another as he wishes.

Criticism of the Government's policy was offered by Sir Ernest Bouverie, who made a speech from which the following extract was taken: I wish to comment on the statement made by my hon. Friend in which he said that the white flour deprived of wheat germs was to be restored to its pristine virtue by adding vitamin B₁. He must know that the universal scientific opinion is that the organic and natural supplies of vitamins are far superior to the synthetic kind. I do not see that the supply of synthetic vitamin B₁ can take the place of the organic natural product, and surely it is a very foolish method which demands subsequent restoration of an ingredient which you have taken away, and you replace it in a form in which it is inferior to the original constitution. I question very much indeed the value of that product, and I still further question the inexpensiveness of the addition. Synthetic vitamins are made by wholesale chemists, who know how to make large quantities.

TRADE NOTES

SUGAREX is the name of a liquid sweetening material manufactured by Ashe Laboratories, Ltd. Further details of this product are given in the advertisement pages of this issue.

OTOSEDAN.—This speciality, which was formerly known by the name of Ootosclerol, is now being manufactured in this country, and supplies may be obtained from Coates & Cooper, Ltd., 94 Clerkenwell Road, London, E.C.1. Otosedan is packed in containers of 50, 500 and 1,000 tablets as hitherto.

AURAX EAR PROTECTORS.—Optrex, Ltd., Wadsworth Road, Perivale, Middlesex, have introduced an ear plug for use in air raids under the name Aurax. Designed by a well-known aurist, the plug is made of soft rubber, automatically moulded to the design of the ear. One dozen pairs are issued on a coloured display card.

MORYL brand carbaminoylcholine chloride, the chemical which was originally introduced under the trade mark Doryl, is now manufactured under licence granted to Savory & Moore, Ltd., Lawrence Road, London, N.15. Moryl is available in the form of ampoules, tablets and solutions for special applications. A copy of an informative folder relating to this product is available on request.

MEDICAL AND SURGICAL PLASTERS.—Details are given elsewhere in this issue of the new conditions on which medical and surgical plasters will be sold by a number of manufacturers from August 1. The terms to both wholesalers and retailers will be on a strictly net basis and no settlement discount will be allowed, though quantity discounts to retailers will continue as previously.

GRAIN PESTS.—An 18-pp. booklet entitled "Pests of Grain," fully illustrated, and an illustrated wall chart, size 25 in. x 20 in., entitled "These Insects are Pests," have been issued by the Department of Scientific and Industrial Research (H.M. Stationery Office, prices 3d. and 4d. each respectively). The illustrations are strikingly clear and enable the pests to be readily identified.

FINE CHEMICALS DIRECTORY.—The latest edition of the "Directory of British Fine Chemicals," just issued by the Association of British Chemical Manufacturers, bears the date April 1940, and is available for distribution gratis to bona-fide users of fine chemicals on application to the office of the Association, 166 Piccadilly, London, W.1. A revised index of manufacturers is repeated on each left-hand page of the list.

BONUS OFFERS TO WHOLESALERS AND RETAILERS.—To assist production of Jackson's febrifuge and to bring forward seasonal orders, George Jackson & Sons, Ltd., Brewery Street, Harpurhey, Manchester, 9, are offering to wholesalers a bonus of thirteen to the dozen on all orders. The bonus commences on August 1 and closes on August 31. Retailers are offered a similar bonus on orders placed through wholesalers between August 1 and September 7.

EAR-PAX EAR PLUGS.—Splendor, Ltd., Beastmarket Hill, Nottingham, are marketing anti-blast ear plugs and a mouth cushion produced by Tampax, Ltd. The ear plugs are made of cotton wool and are stated to conform to the recommendations of the Ministry of Home Security. Made by a special process from long fibre cotton wool stitched to a cord, they are easily inserted in the ear and just as easily withdrawn. The mouth cushion is made from rubber and is sterilisable.

NOVEL IODINE APPLICATOR.—M. J. Fecher, Ltd., 492 Ipswich Road, Trading Estate, Slough, has introduced the Hollopeg Iodab iodine bottle. The screw closure of this container, instead of being fitted with a camel-hair brush, has a tube in which is inserted a piece of absorbent material. This ingenious form of applicator is of special appeal at the present time, but for those who prefer the type with a camel-hair brush Messrs. Fecher are able to supply the Hollopeg iodine bottle as formerly.

PARKE, DAVIS & Co., Beak Street, London, W.1, have introduced a combined antityphoid-paratyphoid vaccine and tetanus toxoid (T.A.B.T.) for simultaneous immunisation against typhoid and paratyphoid fevers and tetanus by a course of two injections, which are given with an interval of at least one month between. This combination of well-known prophylactic antigens is prepared in the Inoculation Department of St. Mary's Hospital, London, and is issued in sets of two 1 c.c. ampoules (first and second doses for one patient) and also in 10 c.c. rubber-capped bottles of first-dose strength and 10 c.c. rubber-capped bottles of second-dose strength.

Business Changes

FRANKLIN & COOK SALES AGENCY, LTD., have moved to Bolton House, 61 Curzon Street, London, S.W.1.

THE CLEVELAND COURT PHARMACY, LTD., has taken over the business of S. Press (Chemists), Ltd., 86A Cleveland Street, London, W.1.

ROBIN HOOD PHARMACY, LTD., have taken over the Robin Hood Pharmacy, 1 The Vale Parade, Kingston Vale, London, S.W.15, formerly carried on by S. Press (Chemists), Ltd.



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1/3 size
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8/- doz. bxs.
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60 Tabs 1s. 6d.
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RETAILERS' DISCOUNT 33 1/3%
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This preparation will improve the condition of the Blood.



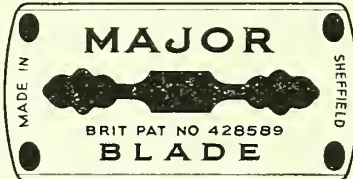
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EDINBURGH

BURROUGH'S
ALCOHOL
FOR TINCTURES

Write for Prices
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SOMETHING NEW FOR CHEMISTS

Retail 1d. each



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The Slotted "Major" Blade fits Three-peg and Bar-Type Razors.

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PILL and TABLET CARTONS
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Medical and Advertising Printers, **BURLEY R. LEEDS. 4.**

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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

for RETAILER — WHOLESALER — MANUFACTURER

circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades and Industries in Great Britain, Eire, The British Empire and all foreign countries

Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire

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Supplementary Budget

On the basis of taxation imposed in the Supplementary Budget introduced by the Chancellor of the Exchequer on Tuesday revenue from all sources for the first full year will, it is estimated, be increased by £239 millions, or nearly 20 per cent. more than was budgeted for in April last. The momentum of war expenditure, however, has increased rapidly, and is already £800 millions a year more than was estimated only four months ago. Part, and we hope a substantial part, of the deficit will be met by national savings, the sale of bullion abroad, and by a steady increase in our export sales. However, the very moderate proposals now indicated are, it seems, part of the Government's policy of giving the nation "small doses at frequent intervals," and this Budget may be regarded as an interim measure with further sacrifices to be called for in another Supplementary Budget in the late autumn, with the peak of taxation reached next April, when the Chancellor introduces the annual national financial statement. Whatever further demands may be entailed they must be met cheerfully. The only alternative is inflation, a paralysing and disastrous form of taxation.

We publish on another page in this issue extracts from the Chancellor's statement on the proposed new form of Purchase Tax, as reported in "Hansard." Beyond this novel experiment in raising revenue there is nothing new except the proposal to deduct income tax in wages and salaries at source. No date for the introduction of this system, which will, we believe, be generally welcomed, was announced, but it is likely to operate when instalments fall due next January. The increase in income tax of one shilling was rather less than was expected, but it should be noted that the rate of tax on the first £105 of taxable income is to be increased from 3s. 9d. to 5s. in the £. The main increases in indirect taxation imposed are on those old revenue favourites of successive chancellors, beer (1d. a pint), tobacco (2s. a lb.) and wines (light, 2s., and heavy, 4s. a gallon).

Although the modified Purchase Tax, according to the Chancellor, will apply only to 14 per cent. of the normal national annual personal expenditure (£600 millions, wholesale value), it places a widespread and heavy burden on some sections of the chemical and allied trades. Under the higher rate of duty, 33½ per cent. on wholesale values, are to be scheduled "Toilet preparations including cosmetics," "Fancy goods," and "Cut glassware." The substantial tax on toilet preparations and cosmetics will increase the wholesale value of these goods for the purpose of the Limitation of Supplies Order and still further restrict supplies. "Certain drugs and medicines" are to be completely exempt, and an indication is included as to the interpretation to be given to this category by reference to medicines taken by diabetic patients. Drugs and medicines, other than those completely exempt, are to be charged at the lower rate of duty of 10½ per cent. on the wholesale value. Until the schedule of drugs and medicines liable to the tax is issued it would be premature to comment on the proposal but, as a "wholesale" tax, it seems that medicines dispensed by a retailer will be outside the scope of the duty. Provisions for the new scheme will be included in the forthcoming Finance Bill and schedules of goods liable to both rates of tax are to be issued in due course. In all cases the tax will be applied

when goods pass from wholesaler to retailer, and it is anticipated that the necessary machinery for its operation will be completed by the end of September.

Control of Tin Containers

THE Ministry of Supply has issued the Control of Tins and Cans (No. 1) Order, 1940 (S.R. and O. No. 1308) (H.M. Stationery Office, price 2d.), prohibiting, as from July 23, the consumption of tinplate and sheet in the production of containers for a large number of commodities, amongst which are the following:—

Cat food, chocolates and chocolate, cornflour, custard powders, dripping, dog food, extract of malt, fat or fats other than lard, honey, lard, liquorice powder and pellets, malt extract, cod liver oil, medicinal pills and tablets, seidlitz powders, strychnine, sugar of milk, bath crystals and bath salts not being medicinal, borax powder, brilliantine, cigarettes, coconut oil, cosmetics and toilet creams, face powder, liquid soap, manicure powder, nail polish, petrol, shampoo powders, shaving sticks, suppositories, toilet soap tablets.

The Order also bans the use of tinplate or sheet in the manufacture of advertising novelties and showcards, counter displays, dummies, godets for powder compacts, metal tablets, oil cabinets, shelf strips, trays and window displays. Generally, all luxury metal packs and all small, uneconomic sizes of metal containers have been eliminated and, where containers have hitherto been used only because of their attractiveness in design, supplies will now be cut out. The manufacture of tin containers for export and for special Government purposes is not affected by the Order.

Provision is made for the supply to retailers of approved sizes of tins for medicinal, pharmaceutical and general chemicals and various foodstuffs. Such sizes are stated to be set out in two booklets, one for food containers and one for other products, issued by the British Standards Institution, 28 Victoria Street, London, S.W.1, price 9d. each. Upon obtaining copies of the "Schedule of Sizes of Tins and Cans for Commodities other than for Food Products" we found that Section 5, "Metal Containers for Medical and Pharmaceutical Purposes," and Section 6, "Metal Containers for General Chemicals, etc.," consist of blank pages. After inquiry at the Institution we were informed that the specifications for containers for these two sections were still under consideration. Unless they are interested in containers for other classes of goods, chemical manufacturers will find the booklets quite useless. No information has been forthcoming as to when the schedules of sizes of such tin containers will be published, and apparently it is permitted, in the meantime, to use whatever containers may be available.

Retail Drug Prices

THE object of the Prices of Goods Act, 1940, is to ensure that the net profit from sales is not greater than that obtained from the sales of similar goods in August 1939, while allowing adjustment for changes in expenses. By the Order made under the Act in May (C. & D., May 18, p. 273), the price of all drugs and chemicals (except those used in dispensing) was brought under control. The system of calculating profits under the Prices of Goods Act differs from the accepted method in the drug trade, and this has necessitated a division of the C. & D. Retail and Dispensing Price List into two parts. In future, these will be published separately as the C. & D. List of Retail Prices and the C. & D. Dispensing Price List. The first issue of the former is enclosed in this number of the C. & D. and the retail prices given in it are based on the system laid down in the Act, as elaborated by the Central Price Regulation Committee (C. & D. Coloured Supplement, March 23). In all retail transactions, therefore, the C. & D. List of Retail Prices should be used or, in the case of a drug or chemical not included, the price should be adjusted in accordance with the Act. For dispensing, the C. & D. Dispensing List may continue to be used for calculating the price of the medicine as hitherto.

According to the C. & D. Costing System, used for the Retail and Dispensing Price List for the past eighteen years, and to the custom throughout the drug trade, definite percentages have been added to the cost price in order to give the retail selling price. This percentage covered net profit and expenses, the accepted figure for the former being 20 per cent. Under the Prices of Goods Act the amount, not the percentage, of net profit on each article must remain constant, whatever the change in cost. For this reason the cost prices of drugs and chemicals in August 1939 and at the present time are given in the C. & D. List of Retail Prices. The seller may add the net amount of the increase in cost and an amount for expenses. The last-mentioned is calculated as a proportion of turnover and compared with a similar figure for August 1939. If the expense ratio of the whole business is unchanged, the only variable factor in calculating the price of a drug or chemical is its increased cost. In connexion with this ratio it should not be overlooked that retailers conducting a one-person business may include a reasonable salary as expenses. For the purpose of the C. & D. List of Retail Prices it has been assumed that the expense ratio is unaltered. The degree of variation of this factor must be calculated by each chemist for his own business.

"C. & D." Dictionary of Synonyms

THE need for an up-to-date publication containing the many synonyms that are likely to be met with in pharmaceutical practice has been evident for some time, and since the *C. & D.* "Dictionary of Synonyms" was last issued many terms included therein have tended to become obsolete and new terms have come into use. With the object of presenting in one volume the chemical, pharmaceutical and botanical synonyms most likely to confront the pharmacist, a further edition of this work has now been published at the price of five shillings per copy. In compiling this volume the general style of the earlier edition has been maintained, with one important exception: so far as possible trade marks have been eliminated. This step has been taken owing to the obvious difficulty of including a complete list of the trade marks associated with the drug and chemical trades in a book of this size. A valuable addition to the material obtained from the earlier edition of the "Dictionary" has been the incorporation into the new volume of "Rouse's Synonyms for the Use of Chemists, their Assistants and Apprentices," together with terms which have been accumulated by the publisher of the work since it was issued in 1898. The new "Dictionary of Synonyms" has been printed in a style which makes for quick reference, and abbreviations have so far as possible been abolished—the few that have been retained being self-evident. The opportunity has been taken to make the present volume uniform in typography and *format* with other recent books of THE CHEMIST AND DRUGGIST series.

The Half-Year's Trade

WITH the publication of the country's trading returns for June the progress of overseas trade for the first six months of the year can be reviewed and useful comparisons made with the results achieved in previous years. It must be borne in mind that international trade during this period has been beset with problems and hindrances entirely absent in times of peace, and it might have been expected that considerably decreased figures would be the result. Despite all difficulties, however, both imports and exports show substantial increases over the figures for the corresponding periods of the past two years. The following table shows imports and exports for the first six months of 1938, 1939, and 1940:—

	IMPORTS	EXPORTS (United Kingdom Goods)	EXPORTS (Imported Merchandise)	EXPORTS (Total)
Six months ended:—	£	£	£	£
June 1940 ..	612,527,356	249,737,661	19,359,419	269,097,080
June 1939 ..	447,787,735	236,318,724	28,101,342	264,420,066
June 1938 ..	469,657,664	233,193,516	32,848,053	266,041,569

After the excellent results achieved in May it was generally expected that the June export figures would show a decline, on account of the unparalleled upheaval in the export trades caused by war developments during the month. Among the factors contributing to this decline—about £3.6 million as compared with June 1939—were the necessity of diverting Mediterranean shipping, the entry of Italy into the war, and the effects of invasions of further European territories. There is no reason to suppose that future export effort cannot more than make up this loss, which is small compared with the initial setbacks experienced at the commencement of the war. In re-exports, the June figure was £2 million, compared with £4.3 million in June 1939, and £4.9 million in June 1938. On the import side the figures for June 1940 were £90 million, compared with £82 million in June 1939, and £76.5 million in June 1938. Compared with immediately preceding months, however, the import figures for June showed a rather sharp decline.

It is satisfactory to note that the export of "Chemicals, etc." continues to show a substantial increase over the figures for the two previous years. In June 1940 exports of this class of goods were valued at £2,479,590, compared with £2,240,180 in June 1939 and £1,715,994 in June 1938—increases of £239,410 and £763,596. During the first six months of the present year the total value of "Chemicals, etc." exported was £16,731,833, compared with £11,977,257 in 1939 and £11,010,401 in 1938. These substantial increases in export trade are a tribute to the manufacturing and business capacities of the British chemical trade.

Chemicals, Dyes, Drugs and Colours	June			January–June		
	1940	1939	1938	1940	1939	1938
Imports	£'000	£'000	£'000	£'000	£'000	£'000
Exports of U.K. manufacture ..	1,298	1,489	903	10,101	8,094	5,962
Re-exports ..	2,479	2,240	1,715	16,731	11,977	11,010
	60	40.9	41.5	420.8	254.6	225.8

Re-exports in this group for the first six months of 1940 also showed an increase, the figures being as follows: 1940, £420,800; 1939, £254,617; and 1938, £225,874. On the import side of the accounts the value of "Chemicals, etc." for June 1940 was £1,298,100, compared with £1,489,803 in 1939 and £903,611 in 1938.

MARRIAGES

Notices for this column must be authenticated

CAMPBELL—STEWART.—At Braid Church, Edinburgh, on June 1 Neil Campbell, Ph.D., 4 Craiglockhart Terrace, Edinburgh, to Marjorie Stewart, eldest daughter of the late Charles Stewart, M.P.S., Comiston Road, Edinburgh.

PARR—YEATES.—At St. Andrew's Church, Plymouth, on July 1 George Edward Parr, B.Sc., to Orena Gysbertha Yeates, M.P.S. younger daughter of Major C. J. Yeates, M.P.S., and Mrs. Yeates, 4 Westbourne Road, Peverell, Plymouth. Miss Daphne Yeates, M.P.S. was one of the two bridesmaids.

SCOTT—SODDY.—At Glasgow University Memorial Chapel, on July 9, John William Scott, Maxwelltown, Dumfries, to Frances Wilhelmina second daughter of the late F. W. Soddy, M.P.S., 47 Kilmarnock Road, Glasgow.

Silver Wedding.—TEIFFEL—HARMSTON.—At Victoria, British Columbia, on July 6, 1915, Leonard John Teiffel, Ph.C., formerly of Newcastle-on-Tyne, to Euphemia Mackenzie Harmston, late of Newar. Present address: 18 Spit Road, Mosman, Sydney, N.S.W., Australia.

DEATHS

CRAIG.—At Ashford, Middlesex, on July 14, Mr. Edwin Forbes Craig, M.P.S., for many years in business as a chemist and optician at New Bridge, Dover. Mr. Craig qualified in 1903 and only retired from commercial life recently.

FOSTER.—At Chelsfield, Kent, on July 19, Mr. S. M. Foster, aged forty. Mr. Foster had been in control of the sales staff of Cellucotto Products, Ltd. (Kotex), Carkers Lane, London, N.W.5, since the inception of the company.

OAKELEY.—Recently, Mr. Thomas James Oakeley, chemist and druggist, High Street, Thatcham, Berks, aged seventy-six.

SHALLCROSS.—Recently, Mr. Joseph Richard Shallcross, chemist and druggist, Bolton, aged eighty-two.

SMITH.—At Bridge House, Whitstable Road, Faversham, Kent, on July 1, Mr. Alexander Smith, chemist and druggist. Mr. Smith qualified in 1902 and was for many years manager at West Street, Faversham for Timothy Whites & Taylors, Ltd. He retired four years ago on account of ill-health.

TURNBULL.—Recently, Mr. James Turnbull, M.P.S., The White House, Harleston, Norfolk, aged seventy-two.

PERSONALITIES

MR. J. BRIDGFORD (northern representative, Sparks, White & Co. Ltd.) was installed at the April meeting of Provincial Grand Lodge of East Lancashire as Past Provincial Grand Deacon (Senior).

MR. JAMES W. DRINKWATER, M.P.S., 49 Ashton New Road, Manchester (P.M. of Ardwick Lodge No. 2185 and P.M. of Fraternity Lodge No. 4315) was installed a Past Provincial Grand Assistant Director of Ceremonies at a meeting of the Provincial Grand Lodge of East Lancashire on April 26.

ALDERMAN BENJAMIN HOLDEN, M.P.S. Victoria Street, Blackburn has received word that his son, Dr. William S. Holden, who served with the British Army in Flanders and was officially reported missing, is prisoner of war in the hands of the Germans. Lieut. Holden, R.A.M.C. was house physician at Ancoats Hospital, Manchester, until Christmas 1939, and went to France in January 1940.

RECENT WILLS

MR. THOMAS CHARLES JONES, M.P.S., Arosfa, Merthyr-mawr Road, Bridgend, Glamorganshire, who died on April 2, left £8,342, with net personality £4,985.

MR. WILLIAM HENRY GREEN, M.P.S., Heather Cottage, Bolling Road, Ilkley, who died on April 27, left property of the value of £5,790, with net personality nil.

MR. JAMES EDWARD DAWSON, 16 Westbourne Avenue, Blackpool, Lancs, ammonia distiller, who died on October 2, 1939, left £7,010, with net personality £6,370.

MR. WILLIAM HENRY LESTER, M.P.S., 53 Hinckley Road, Nuneaton, Warwicks, who died on March 6, left estate of the gross value of £34,647, with net personality £20,224.

MR. RICE WILLIAM REES, 34 Garthorne Road, Honor Oak Park, Lewisham, London, S.E., retired chemist and druggist, who died on May 8, left £10,534, with net personality £10,490.

MR. JOSEPH WILLIAM CLEMITSON, M.P.S., "Ailsa House," Dawson Street, Crook, Durham, who died on October 26, 1939, left estate of the gross value of £1,546, with net personality £200.

RECENT DEVELOPMENTS IN THERAPEUTICS

by F. Prescott, M.Sc., Ph.D., A.I.C., M.R.C.S., L.R.C.P.

V.—Anæsthetics

Inhalation Anæsthetics.—The advances made during the last few years can be summarised as follows: 1, Premedication or induction of anaesthesia; 2, increased use of gas and oxygen; 3, use of closed and semi-closed methods; 4, new anæsthetic agents. The following is a detailed consideration of these groups.

Recently there has been a tendency to administer drugs to the patient about to undergo operation before he receives a general inhalation anæsthetic. This is known as premedication, or induction of anaesthesia. It has the advantage of allaying apprehension, diminishing pain and the incidence of vomiting, and reducing the amount of anæsthetic required. Two groups of drugs are used for the purpose of premedication. The first group consists of sedatives such as morphine and a number of the barbiturates. Some are given by injection, others by mouth. Drugs of this group produce light sleep in a few cases, but by drowsiness in most. The second group consists of bromethol (bromethyl alcohol), trichlorethanol (trichlorethyl alcohol) and paraldehyde, all of which are administered rectally, and the intravenous anæsthetics. These produce sleep and reduce the amount of ether required for anaesthesia. They should not be used in cases of liver or kidney disease, toxæmia, and old age. In such, morphine is to be preferred. As a result of improvement in apparatus and the increased use of premedication and intravenous anaesthesia, nitrous oxide in combination with oxygen can now be used for prolonged anaesthesia, as well as for short operations. It is essential that there should be no air leakage in the apparatus, and that the percentage of oxygen should be accurately adjusted. 3. Since anæsthetic gases are exhaled unchanged, if a patient is breathed into and out of a bag, theoretically there would be no loss of anæsthetic, and once the desired level of anaesthesia were reached it could be maintained indefinitely without addition of further anæsthetic. This is the principle of the "closed method." The patient breathes in and out through a mask connected with a rubber bag containing the anæsthetic (gas—oxygen or ether), a canister of soda lime being placed between to absorb exhaled carbon dioxide. All that need be added is a small basal flow of oxygen and a small quantity of anæsthetic to make up for the slight loss that occurs. Use of the closed method results in economy of anæsthetic, diminished heat and moisture losses from the lungs of the patient, which again help to prevent the onset of surgical shock. There is also a reduction in the depth of respiration, which is much appreciated by surgeons performing abdominal operations. 4. A number of new volatile anæsthetics have been introduced during recent years. The more important of these are cyclopropane and vinesthene. Cyclopropane, or trimethylene, C_3H_6 , although it has been in use for some years, is still in the experimental stage. It is more unpleasant than nitrous oxide, is non-irritating, and generally resembles ether in its effects, although it is said to have a toxic effect on the heart in excessive doses. Other drawbacks are risk of explosion and the expense, although the latter can be minimised by use of the closed method. It is said to be of great service in thoracic surgery, and can be used as an adjuvant to nitrous oxide-oxygen anaesthesia. Ethylene, C_2H_4 , which resembles nitrous oxide as an anæsthetic, has had a considerable vogue in America but is now seldom used in Great Britain. Acetylene, C_2H_2 , has also been used for anaesthesia, especially in Germany, and propylene, C_3H_6 , appears to be a satisfactory anæsthetic in animals, though it has not yet been given an extensive trial with human beings.

Many halogenated compounds are used as anæsthetics. In addition to chloroform, ethyl chloride, bromethol and trichlorethanol, it has been proposed to use trichlorethylene, $CHCl:CCl_2$, as a volatile anæsthetic. This compound is already in use therapeutically for relief of pain in geminal neuralgia. The best method of administration appears to be that of blowing air through the liquid, which is not highly volatile. A series of over 300 administrations has been performed, showing on the whole good anaesthesia, though occasionally violent excitement has occurred.

Another member of the ether series that has recently sprung into prominence is divinyl ether or vinesthene ($CH_2=CH_2O$). This is a colourless liquid with a faint smell. Full anaesthesia can be rapidly induced by it but, owing to its volatility (E. P. $28^\circ C.$), a closed or semi-closed system is essential for prolonged anaesthesia. In order to avoid waste from rapid volatilisation a mixture of vinyl ether (25 per cent.) and diethyl ether (75 per cent.) is often used. The pure substance is put up in 3 c.c. capsules and bottles of 25 c.c. Vinesthene is of particular value for short operations in children and has partly replaced ethyl chloride for dental and minor ear, nose and throat work. It is also useful for enforcing nitrous oxide-oxygen, and in midwifery for manipulations such as version, the use of forceps and for Caesarian section. Anaesthesia is smoother and more rapid than with ordinary ether but, being more

potent, vinesthene requires careful administration. Convulsions under the anæsthetic have recently been recorded. They may be due to decomposition, since the compound rapidly deteriorates with formation of aldehydes, which polymerise to form resinous products known to cause convulsions in experimental animals.

Intravenous Anæsthetics.—Today, general anaesthesia can be produced not only by the inhalation of volatile anæsthetics, but also by the intravenous injection of certain barbiturate drugs. One of the first of these to be used was a mixture of salts of diethyl and allyl isopropyl barbituric acids, which was employed extensively in France as an intravenous basal narcotic. This produces unconsciousness without surgical anaesthesia, which is completed with a general anæsthetic such as ether. Several other barbiturates have been used to produce basal narcosis, among them being sodium isoamyl ethyl barbiturate, sodium ethylmethylbutyl barbiturate and sodium butyl- β -bromallyl barbiturate. Barbiturates that are used for intravenous anaesthesia include hexobarbitone, the sodium salt of N-methyl-cyclohexenyl-methyl barbituric acid; the sodium salt of 1-methyl-5:5-allyl isopropyl barbituric acid; sodium (1-methyl-butyl) thiobarbiturate, sodium isoamyl ethyl thiobarbiturate; sodium isopropyl- β -bromallyl-N-methyl barbiturate. These drugs are issued in solid form in ampoules, and the solution is freshly prepared when required for intravenous injection. Being non-volatile, these anæsthetics are not eliminated unchanged like ether, which is excreted mainly through the lungs. They are rapidly broken down in the body, particularly in the liver.

Intravenous anaesthesia is as safe as that produced by volatile anæsthetics if used with due regard to dosage, technique and contraindications. There are many reports on series of 1,000 cases and over without a single fatality. Intravenous anaesthesia minimises psychic shock in nervous patients and does not usually give rise to pulmonary complications, vomiting, and unpleasant after-effects. Since its introduction something like 10,000,000 operations or surgical procedures have been performed by means of it. Not only can intravenous anæsthetics be used as basal narcotics for producing light anaesthesia, which is completed by a general anæsthetic, but they can also be used to produce complete anaesthesia of short duration (up to twenty minutes) for minor operations, and also prolonged anaesthesia for long operations lasting for some hours. They have thus a wide range of action, and have been used for nearly every type of major and minor surgical and obstetrical procedure, as well as for controlling fits and convulsions in tetanus, chorea, delirium tremens, epilepsy, and poisoning by convulsive drugs. Other uses are as sedatives in certain mental cases and to secure a state resembling hypnosis in psycho-analysis. Care has to be taken in controlling the rate of injection of the intravenous anæsthetics. Initially 10 c.c. is given, the first 2-3 c.c. being injected over a period of fifteen seconds, and the next 3-4 c.c. within thirty seconds.

Local Anæsthetics.—The many drawbacks of cocaine have stimulated the search for substitutes. These should have a low toxicity factor, and solutions should be capable of being rendered sterile by boiling. Procaine, or *p*-aminobenzoylethylaminoethanol, is one of the most important of these substitutes. It has recently been used as a 2 per cent. solution to produce local anaesthesia in the treatment of fractures, sprains, sciatica, lumbago, and chronic arthritis. A number of proprietary preparations for local anaesthesia contain procaine and adrenaline. One containing procaine with benzyl alcohol and butyl-*p*-aminobenzoate, is an extremely long-acting combination, and is used for the injection of peri-anal tissues in such conditions as painful fissures and pruritus ani. Another is the diethylethylenediamide of butyl-oxy-cinchoninic acid, which is also a very potent and long-acting anæsthetic.

Spinal Anæsthetics.—Procaine is the basis of a number of preparations used for spinal anaesthesia. The density of solution has to be so adjusted that it approximates to that of the cerebro-spinal fluid (S.G. 1.004-1.010). One proprietary preparation contains procaine and an alcohol-soluble derivative of wheat starch, which limits the diffusion of the procaine.

[Many of the chemical compounds referred to in this article will be more familiar to pharmacists under their proprietary names, but in keeping with our usual policy these trade marks have been omitted.—EDITOR.]

SALE OF TEA BY CHEMISTS.—Chemists who have not already registered for obtaining supplies of tea should do so by applying to their local food office and should obtain the order book (S.3) which is being used for ordering wholesale quantities. They can then order in the usual way from wholesale houses, using the official order book. Chemists are reminded that they should not sell tea by retail without receiving the appropriate coupons, reserved for the purpose, from ration books.

HOW TO RUN A SUCCESSFUL PHOTOGRAPHIC BUSINESS

A DEVELOPING and printing service, the successful running of which was discussed in *THE CHEMIST AND DRUGGIST*, April 20, p. 311, touches only the fringe of the field of legitimate photographic business. To gain possession of this wider field some thought and planning is necessary.

Camera Stock.—Important questions confronting the chemist photo-dealer are agencies and stocks. The leading firms of manufacturers of photographic apparatus restrict their points of distribution and appoint new dealers only after consultation with existing distributors' organisations. This factor being allowed for, the wise dealer chooses his agencies after a thorough study of the range of products offered by each maker. Several well-known and reliable British firms are manufacturing cameras, and at least one specialises in accessories. The problem now is whether the range to be carried shall include or exclude miniature models. These compact but, in the main, expensive instruments eat heavily into one's capital without producing enough stock to make a satisfactory display. Unless capital is fairly fluid, miniature cameras, especially the true—and most expensive—examples should, with all attendant accessories, be left alone until the business is well established; at the average pharmacy inquirers for miniatures are relatively few. Handbooks and catalogues issued by the manufacturers at a nominal charge, for overprinting with the dealer's name and address, are of considerable value as a sales adjunct. The dealer should endeavour to carry as representative a stock of items as the catalogues portray, not forgetting that the box camera is still the backbone of the camera trade. The latter is also more than useful for introducing photography to the youth of sixteen or thereabouts, who, with the dealer's sympathetic assistance, often develops into a serious worker. Folding cameras are still most popular generally in the $3\frac{1}{2}$ in. \times $2\frac{1}{2}$ in. size. The size has been still further popularised by the introduction of a mask that allows sixteen pictures to be made on the ordinary eight-exposure film. Many prospective "miniature" customers can be held with this useful addition to the range when the universal ease of supply in the matter of films and accessories, resulting from the enormous popularity of the $3\frac{1}{2}$ in. \times $2\frac{1}{2}$ in. size camera, is pointed out. Two other sizes require serious thought: the $2\frac{1}{4}$ in. \times $2\frac{1}{4}$ in., which is now rather more popular than formerly, and the $2\frac{1}{2}$ in. \times $4\frac{3}{4}$ in. size. The former is probably the most useful instrument in the hands of an amateur with little knowledge of composition, the square picture solving the frequent problem "Which way round shall I take it?" The $2\frac{1}{2}$ in. \times $4\frac{3}{4}$ in. size lends itself to some attractive and unusual compositions, and is especially useful for landscape work. For the more advanced or specialising amateur, one model representative of the $4\frac{1}{4}$ in. \times $3\frac{1}{4}$ in. plate type should be stocked. Often, however, customers for such cameras have their own ideas and will await with patience the delivery of an unstocked model. The present tendency is toward larger apertures and better shutters, a tendency that should certainly be catered for. The advantages are obvious and include lengthening of the photographic day with panchromatic film, greater ability to use filters, and the possibility of making photography an all-the-year-round hobby. Generally the average buyer of a camera has in the first instance only a vague idea of what he really wants, so a great deal is left to be suggested by the dealer. Rather than merely inquire what the customer wishes to pay for his instrument, chemists should first try to discover precisely what the customer expects of the camera, or what kind of photographic work he is interested in. With this information as basis, little difficulty should be experienced in meeting the demand from even a limited stock. It is of the greatest importance that the customer should be impressed with the fact that, like any other precision instrument, each camera has definite limitations. The dealer must, therefore, be thoroughly conversant with these limitations and in a position to explain them simply and clearly. To be able to bring forward actual photographs taken with the type of camera under discussion, preferably specimens which illustrate outstanding features possessed by the particular model, is a great advantage.

Camera Display.—As with every other kind of merchandise, display is of vital importance, providing always that the following points are kept in mind:—Originality; stock; developing and printing service; and accessories, in that order of importance.

Originality.—No hard and fast rules can be laid down for this quality, which greatly depends upon the temperament of the dealer and his *flair* for tracking down the unusual. Much, too, depends upon local circumstances. The following hints may, however, prove helpful. A few cameras as nucleus of a display should be accompanied by a series of photographs actually taken with apparatus of the kind shown and preferably drawing attention to an outstanding feature of the camera. Such features are a large-aperture lens, high-speed shutter, delayed-action release, etc. The display becomes

doubly valuable if combined with pictures having local interest, such as (in normal times) a noted or historic beauty spot, night "shots" of the city centre, local illuminations, photographs taken in the local cathedral or parish church, or even an action picture of a nearby fish and chip merchant at his frying range. **Stock.**—The greatest possible variety consistent with good window-dressing should be displayed—shown, where possible, in makers' groups and ranges. A sprinkling of the humble box camera for the schoolboy who has five shillings to spend, or even for the hesitant adult, should be included. Second-hand and shop-soiled instruments should be displayed on a shelf set aside for this purpose and not included with the new cameras. Clearly marked price tickets should be on every camera in the display. **D. and P. Service.**—The possibilities of the developing and printing service should be featured in every display, especially by prints and enlargements. Enlargements should show a variety of sizes on different papers or surfaces but all from the same negative. A complete range of possible prints from the same negative should also be shown: black and white; black on tinted; sepia-toned on white and tinted; deckle-edged and plain-edged trimming; plate-marked and straight prints, etc. In this way at least a dozen different types of print can be shown from any one negative. Other possible services that can be recommended in the display are tinting, copying, framing, fine-grain developing, while the opportunity can be taken to suggest albums for prints, home developing and printing outfits, and to give details of any local or national photographic competitions that may be running at the time. **Accessories.**—The largest possible stock of accessories compatible with financial and other limitations should be held and examples shown in every camera display. Special mention may be made of filters, which vary so much in size and shade that the average dealer is inclined to fight shy of stocking them. Much of the difficulty can be overcome by stocking three sizes of an adjustable filter mount. In this way most cameras can be fitted immediately from stock, and any unusual type of filter obtained by post. Lens hoods and camera cases should also be stocked, and customers should be impressed with the importance of keeping a camera in its case.

Sales Policy.—Points arising from those already discussed are hire purchase, second-hand apparatus, and sub-cinematography. Customers known to the dealer may be offered extended credit on more or less their own terms. Less well-known customers should be offered the usual H.P. service, financed by the manufacturers and their agents. Care should be taken to guard against crowding the shelves with second-hand instruments, yet quite often a likely customer demands acceptance of his old camera in part payment for new equipment. In this event he should be offered a fair, even generous, price. The instrument taken in exchange can often be used to encourage some other hesitating customer to extend his scope. Sub-cinematography should be left severely alone unless the dealer is prepared to set aside enough capital to run a complete service, offering (in the four different sub-standard sizes: 9.5 mm., 8 mm., 16 mm., and 17.5 mm.) cameras, projectors, film library and accessories.—*F. W. M. (6/7).*

GETTING THAT EXTRA SALE

EVERY shop has the customer who calls for one item only; for example, the lady who buys only a certain brand of hair tonic, the man who calls in every few days for indigestion lozenges and who does not purchase toothpaste or shaving stick. Consider these people and what they are likely to be buying elsewhere. To increase the number of sales to such people it is better technique to ask them to recommend your establishment instead of commencing sales talk with them for lines which they are not likely to need. It is also a wise policy to try to discover why a customer patronises your pharmacy and to ask him whether you may send samples to his friends. It may be that your establishment is the only place he passes which stocks the particular article he requires, while other places have to order it. The item may be required for an office or works, yet there is no reason why you should not obtain the personal orders of the customer for other goods. A few tactful remarks in conversation will often suggest his occupation, and it is a surprising fact that many men hate shopping at strange places, yet they are always prepared to call again at the establishment where they think the assistant or owner has similar interests. Hobbies or amusements are a great common meeting ground; a sports discussion will often make a new customer for all lines instead of a casual purchaser for only one particular article. Books, films and plays are other themes that also help to develop the personal touch. Therefore no effort should be spared to look after the customer who calls for one item only and to try to make him or her a shopper who automatically thinks of your establishment whenever he needs an article he may reasonably expect to find in a chemist's shop.—*B.S. (17/7).*

TRADE REPORT

Not quotations recorded for pharmaceutical chemicals, crude drugs, essential oils, etc., represent the prices for wholesale quantities of standard quality. C.i.f. shipment quotations do not include marine war risk insurance and other abnormal charges which arise under the present state of emergency

28 Essex Street, W.C.2, July 24

CONDITIONS in all markets continue quiet. Rather better inquiry has been noted from the home-consuming trade and a fair routine business has been done. Although a number of products are in short supply, owing to difficulties in replacing stocks, there is no critical shortage of essential commodities. Forward business is still hampered by uncertain conditions at many sources of supply, particularly in the Far East. Business in PHARMACEUTICAL CHEMICALS continues moderate. One or two products are tending dearer, but generally quoted values are level. AMIDOPYRINE is firm. Makers of CREAM TARTAR notify an advance in price. QUININE continues to be quoted in American dollars. SACCHARIN is steady at Convention prices, with supplies limited. TARTARIC ACID is quoted dearer by makers.

Crude Drugs

Fair routine business continues in a number of items, but generally the markets have been quiet. Important price changes are few, and values are firm. Supplies of ACONITE ROOT in first hands appear to be negligible. Spot values for AGAR are unchanged, and shipment prices are still not available from Japan. Spot quotations for CURAÇAO ALOES continue at the figures quoted last week. BELLADONNA ROOT and LEAF are in short supply, but some root is reported due to arrive from India; English growers report that the crop suffered badly from the severe winter. The CLOVES markets have shown some activity; prices for forward shipment and for spot material remain as last week. DESICCATED COCONUT is quoted dearer on spot. English growers of DIGITALIS report a promising crop but state that prices will be higher owing to increased costs. Forward prices for new-crop Spanish-Portuguese ERGOT show a further reduction. More inquiry is reported for GAMBOGE. SUDANUM ACACIA is in better demand and quoted dearer on spot; shipment values are nominal. HONEY is firm and unchanged. MATTO GROSSO IPECACUANHA is fully held for the prices quoted last week. Japanese MENTHOL is neglected. Fair inquiry has been received for RHUBARB, buyers preferring the all-pinkish rough-round variety, little of which is available. SENEGA for shipment is now mer. Some business is reported in CORIANDER SEED at the prices quoted. CINNA continues firm; it is understood that there is little likelihood of shipping facilities being available for Timnevelly during July and August. Some varieties of TRAGACANTH are quoted dearer on spot.

Essential Oils

Business in these products has been limited and rather featureless during the last week. The demand for ALMOND remains limited. There are no offers from China for ANISE (STAR). BOIS DE ROSE and CASSIA are firm. CITRONELLA continues to attract inquiry; Ceylon is easy for shipment. Spot values of GERANIUM are now a matter for negotiation; the Algerian variety remains at the prices quoted last week. Sicilian LEMON is nominal on spot. EMONGRASS for shipment is easy. PALMAROSA and PETITGRAIN are firm. Both Chinese and Japanese PEPPERMINT are in good demand on spot; American natural remains steady. SPIKE is firmer on spot. Among the synthetics, reported COUMARIN, HELIOTROPIN, MUSK KETONE and MUSK XYLOL are noted dearer.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

Centre	Quoted	Par	July 17	July 24
Argian Congo	Frs. to £	nominal	176½*	176½*
Argos Aires	Paper pesos to £	—	17·02*	17·02*
Batavia	Florins to £	12·107	7·60*	7·60*
Bombay	Esc. to £	110	100½	100
Buenos Aires	Ptas. to £	25·24½	37·25	37·25
Calcutta	Dols. to £	4·86½	4·45*	4·45*
Colon	Dols. to £	nominal	4·03*	4·03*
Hankow	Per dollar	—	4d.	3½d.
Hongkong	Kr. to £	18·150	16·90*	16·90*
Kobe	Per yen	2s.	1s. 2½d.	1s. 3d.
Manila	Frs. to £	22·2115	17·75*	17·75*

* Rate fixed by Bank of England. Bank rate, 2 per cent.

Pharmaceutical Chemicals, etc.

TRADE in these markets is on moderate lines. Quoted prices are mainly steady, one or two products tending dearer. Advances are notified in cream of tartar and tartaric acid.

ACETANILIDE.—Market steady; business of moderate account. B.P. leviss, or prompt delivery, from 2s. 3d. to 2s. 5d. per lb., according to quantity.

AMIDOPYRINE.—Dealers' prices continue firm. Quotations for one cwt., about 25s. to 27s. 6d. per lb.; smaller quantities, up to about 30s. per lb. or crystals, with powder 3d. per lb., extra.

ATROPINE.—Makers' prices per oz. are unchanged:—

	OZ.	4 OZ.	25 OZ.
Alkaloid	21s. 0d.	20s. 6d.	20s. 0d.
Alphate	16s. 6d.	16s. 0d.	15s. 6d.

Bottles, under 5 gm. or ½ oz., corked, 3d.; stoppered, 5d.; 5 gm. to 25 gm. or ½ oz. to 1 oz., corked, 3½d.; stoppered, 6d.; 25 gm. or 1 oz., corked, 3½d.; stoppered, 7½d.; 50 gm. or 1 oz., corked, 4d.; stoppered, 9d. each; 100 gm. and over, included in price; tubes, per 100, 10s. 6d.; 10-gr., 12s. 3d.; 15-gr., 14s.

BARBITONE.—Spot values continue firm; business is quiet. Spot, one cwt., 22s. per lb.; 28 lb., 23s.; smaller quantities, up to 26s., ex store.

BORAX (B.P.).—The following are makers' present prices: Granulated, £31; crystals, £32; powder, £32 10s., in 1-cwt. bags, carriage paid in Great Britain, for minimum one-ton lots. Commercial quality, £8 per ton less.

BORIC ACID (B.P.).—Continues steady at makers' prices: Granulated, £45 10s.; crystals, £46 10s.; powder, £47 10s. per ton, in cwt. bags, carriage paid in Great Britain, for minimum one-ton lots. Commercial quantities, £8 per ton less.

BROMIDES.—Makers are quoting as follows: POTASSIUM, B.P., not less than 5 cwt., 2s. 2d. per lb.; 1 cwt., 2s. 3d.; 28 lb., 2s. 9½d. SODIUM, B.P., not less than 5 cwt., 2s. 4½d. per lb.; 1 cwt., 2s. 5½d.; 28 lb., 3s. AMMONIUM, B.P.C., not less than 5 cwt., 2s. 5½d. per lb.; 1 cwt., 2s. 6½d.; 28 lb., 3s. 1d. Net. Rise-and-fall and re-sale clauses apply. Without engagement. Special prices for larger quantities. 28-lb. parcels and 1-cwt. cases or kegs free.

CAFFEINE.—Any foreign material on spot could be valued as follows: ALKALOID less than 56 lb., 23s. 6d. per lb.; 56 lb., 23s.; 1 cwt., 22s. 6d. CITRATE, less than 56 lb., 16s. per lb.; 56 lb., 15s. 6d.; 1 cwt., 15s. per lb.

CALCIUM LACTATE.—Up to 1s. 8d. per lb. is quoted by makers for small quantities.

CITRIC ACID.—Quoted by makers for home consumers at a nominal figure of 1s. 2d. per lb., less 5 per cent. discount. Small supplies in dealers' hands are quoted at about 1s. 6d. per lb.

COCAINE.—British makers' quotations for wholesale bulk quantities are as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 9d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. ALKALOID, CITRATE, and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free. Smaller packing extra. The scale of prices applicable to distributors of smaller quantities is as follows: HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; ½ oz. and less than 1 oz., 37s. 11d.; ¼ oz. and less than ½ oz., 40s. 11d. per oz. ALKALOID, CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; ½ oz. and less than 1 oz., 40s. 8d.; ¼ oz. and less than ½ oz., 43s. 8d. per oz., packages extra. Re-sale: Sales are subject to buyers' undertaking not to re-sell any quantity below the scale of prices for such quantity current at the time of re-sale. Export prices vary according to destination.

CREAM OF TARTAR (B.P.).—147s. per cwt., nominal, less 2½ per cent. discount, is quoted by one maker for home trade, with supplies restricted to regular consumer customers.

CREOSOTE (BEECHWOOD).—Dealers' latest quotations are at about 4s. 6d. per lb. for bulk quantities in 25-kilo demijohns, and up to 5s. per lb. for smaller quantities, ex store.

EMETINE HYDROCHLORIDE.—Makers' quotations now range between 100s. and 104s. per oz., according to quantity.

EPHEDRINE HYDROCHLORIDE (B.P.).—Quoted at from 7s. 7d. to 7s. 9d. per oz. for large quantities, and up to 10s. per oz. for smaller quantities.

ETHERS (METHYLATED).—Makers' scales of prices are steady, as follows:—

Grade	W. qts., per lb.	Not less than			Drums, per lb.
		6 w. qts., per lb.	12 w. qts., per lb.		
S.G.	S. d.	S. d.	S. d.	S. d.	
0·750	1 4½	1 4	1 3½	1 2½	
0·735	1 5	1 4½	1 4	1 3	
0·730	1 5	1 4½	1 4	1 3	
0·725	1 7	1 6½	1 6	1 5	
0·725, triply rectified	1 11½	1 11	1 10½	1 9½	
0·720	1 8	1 7½	1 7	1 6	
0·717	2 2	2 1½	2 1	2 0	
0·720 B.P., not for anaesthesia	1 10	1 9½	1 9	1 8	

Net prices, usual terms. Special prices for quantities and contracts, subject to rise-and-fall clause. Prices for anesthetic ethers unchanged.

GUAIACOL CARBONATE.—Market steady; makers' and dealers' quotations unchanged at from 12s. 6d. to 13s. per lb., ex store, as to quantity.

GUAIACOL (CRYSTALS).—Business is on routine lines. Makers are quoting from 10s. 9d. to 11s. 6d. per lb., as to quantity. Liquid, from 10s. 6d. upwards, as to quantity.

IODIDES.—Makers' scales of prices steady: POTASSIUM, B.P., not less than 1 cwt., 8s.; 28 lb., 8s. 6d.; 14 lb., 9s.; 7 lb., 10s. 2d.; 4 lb., 10s. 8d.; smaller quantities, 11s. 2d. per lb. SODIUM, B.P., not less than 28 lb., 8s. 10d.; 14 lb., 9s. 4d.; 7 lb., 10s. 9d.; 4 lb., 11s. 5d.; smaller quantities, 12s. 3d. per lb. IODINE, B.P., RESUB., not less than 1 cwt., 9s. 2d.; 28 lb., 9s. 8d.; 14 lb., 10s. 2d.; 7 lb., 11s. 7d.; 4 lb., 12s. 3d.; smaller quantities, 13s. per lb. IODOFORM, B.P. (CRYST., PRECIP. OR POWDER), not less than 28 lb., 11s. 4d.; 14 lb., 11s. 10d.; 7 lb., 13s. 9d.; 4 lb., 14s. 7d.; smaller quantities, 15s. 5d. per lb. Contracts for 1 cwt. and upwards (assorted if desired) for delivery as required during three months, with the following clause: Price applicable to any delivery is that in force on date of dispatch. One-cwt. cases charged extra; 28-lb. tins 2s. each and non-returnable. All bottles charged for but credited in full if received back carriage-paid in good condition within three months. Carriage paid on any quantity. Assorted quantities charged for at

collective total prices on orders for 14 lb. and upwards. It is a condition of sale that buyers undertake not to re-sell any quantity at prices or terms below scale for such quantity current at time re-sale is made.

LACTIC ACID (B.P.).—A quiet market; quoted unchanged. Quantities, in 1-cwt. carboys, about 1s. 8½d. per lb.; in wincheters and bottles, about 1s. 9d. to 2s. per lb., ex store, according to quantity.

MERCURIALS.—The controlled prices continue unchanged, as follows:—

	Over 7 lb. but less than 28 lb.	28 lb. and over but less than 1 cwt.	1 cwt. and over but less than 2 cwt.	2 cwt. and over but less than 5 cwt.	5 cwt. and over
	s. d.	s. d.	s. d.	s. d.	s. d.
Mercury bichloride, powder ..	12 8	12 4	12 3	12 2	12 0
Mercury bichloride (industrial users) ..	12 8	12 4	12 3	12 1	11 11
Mercury bichloride, lump ..	13 3	12 11	12 10	12 9	12 6
Mercury ammonium chloride, powder ..	14 7	14 3	14 2	14 1	13 7
Mercury ammonium chloride, lump ..	14 5	14 1	14 0	13 11	13 5
Mercurous chloride ..	15 0	14 8	14 7	14 6	14 4
Mercury oxide, red crystalline, B.P. ..	16 9	16 5	16 4	16 3	16 1
Mercury oxide, red levigated, B.P. ..	16 3	15 11	15 10	15 9	15 9
Mercury oxide, red technical ..	16 3	All quantities—15s. 6d. per lb.			
Mercury oxide, yellow levigated, B.P. ..	16 2	15 10	15 9	15 8	16 8
Mercury oxide, yellow technical ..	16 2	All quantities—15s. 2d. per lb.			

Packages free for quantities of 28 lb. and over; delivery free on orders of £20 and over.

MERCURY IODIDES.—Makers' prices per lb. are as follows: Red, less than 7 lb., 17s. 8d.; not less than 7 lb., 17s. 4d.; not less than 14 lb., 16s. 10d. GREEN, less than 7 lb., 19s. 6d.; not less than 7 lb., 19s. 2d.; not less than 14 lb., 18s. 8d. YELLOW, less than 7 lb., 21s. 3d.; not less than 7 lb., 20s. 11d.; not less than 14 lb., 20s. 3d. net, carriage paid.

MERCURY SULPHIDE, RED (VERMILION).—Controlled prices are unchanged: Over 7 lb. but not more than 30 lb., 13s. 11d.; over 30 lb. but less than 1 cwt., 13s. 10d.; 1 cwt. and over but less than 5 cwt., 13s. 9d.; 5 cwt. and over but less than 10 cwt., 13s. 8d.; 10 cwt. and over but less than 20 cwt., 13s. 7d.; 20 cwt. and over, 13s. 6d. per lb. Packages free; delivery free on orders of £10 and over; all prices net cash fourteen days.

METHYL SULPHONAL.—Valued on spot at about 40s. to 42s. 6d. per lb., ex store; little available.

PHENACETIN.—Ordinary quantities are quoted by makers at from 3s. 6d. to 3s. 9d. per lb., without engagement. Dealers have only small quantities available, and prices are firm at from 7s. to 7s. 9d. per lb.

PHENAZONE.—Dealers' prices range between 18s. per lb. for bulk quantities and 22s. for small parcels, ex store.

PHENOLPHTHALEIN.—Makers' prices are firm as previously quoted: Less than 7 lb., 3s. 8d. per lb.; 7 lb., 3s. 7d.; 14 lb., 3s. 6d.; 28 lb., 3s. 5d.; one cwt., 3s. 4d.

PHENYLETHYLBARBITURIC ACID (B.P.).—Supplies very limited; quotations firm at from 30s. to 32s. 6d. per lb., in bottles, according to quantity.

QUININE.—Current quotations are in dollars, the price of sulphate being 57 American dollars per 100 oz., f.o.b. Java. Supplies in dealers' hands are quoted at about 3s. 2d. to 3s. 3d. per oz.

RESORCIN.—Makers' scales of prices unchanged: Not less than 7 lb., 7s. 3d. per lb.; not less than 14 lb., 7s.; not less than 56 lb., 6s. 10d.; not less than 1 cwt., 6s. 9d. Dealers' prices for any spot material available would be about 8s. 6d. to 9s. per lb.

SACCHARIN.—550 continues to be quoted at the Convention price of 98s. 4d. per lb., duty paid, with supplies limited. There is no Government control on either wholesale or retail prices.

SALOL.—Market firm; values unchanged. Spot, about 6s. 9d. to 7s. per lb., according to quantity.

SANTONIN.—Convention prices are as follows: 15 kilo and over, £35 10s.; not less than 10 kilo, £36 5s.; not less than 5 kilo, £37; less than 5 kilo, £38 per kilo, delivered free in the U.K.; 1-kilo tins free.

SODIUM BARBITONE.—Values unchanged: One cwt., 23s. per lb.; 28 lb., 24s.; smaller quantities, 27s. per lb., ex store.

STRYCHNINE SALTS.—British makers' prices per oz. are as follows:—

	Under 100 oz.	100 oz. and under 500 oz.	500 oz. and over		Under 100 oz.	100 oz. and under 500 oz.	500 oz. and over
	s. d.	s. d.	s. d.		s. d.	s. d.	s. d.
Alkaloid, cryst. ..	2 8	2 7	2 6	Nitrate, powder ..	2 5½	2 4½	2 3½
precip. ..	2 8	2 7	2 6	Phosphate " No. 2 ..	1 11	1 10	1 9
Acetate ..	2 10½	2 9½	2 8½	Sulphate, neutral, cryst. ..	3 3½	3 2½	3 1½
Arsenate ..	2 9	2 8	2 7	Sulphate, neutral, powder ..	2 2	2 1	2 0
Arsenite ..	2 10½	2 9½	2 8½	Sulphate, neutral, powder No. 2 ..	1 9	1 8	1 7
Bisulphate ..	2 0½	1 11½	1 10½				
Hydrochloride ..	2 5½	2 4½	2 3½				
Hypophosphite ..	5 2	5 1	5 0				
Nitrate, cryst. ..	2 5½	2 4½	2 3½				

25-oz. containers and outer cases free; smaller packages extra. Contracts may be booked for quantities of 100 oz. and over, with rise-and-fall clause, for a period of six months. Terms net thirty days. Wholesale distributors' prices for small quantities would be dearer.

SULPHONAL.—Dealers quote at 34s. to 35s. per lb., according to quantity.

TARTARIC ACID (B.P. CRYSTALS).—Makers notify their nominal price is now 1s. 10½d. per lb., less 5 per cent. discount, with supplies reserved for regular consumer customers. Some small supplies of foreign may be obtainable at about 3s. per lb.

THEOBROMINE.—The spot values of any foreign alkaloid obtainable would be: Less than 56 lb., 23s. 6d. per lb.; 56 lb., 23s.; 1 cwt., 22s. 6d. per lb.

Crude Drugs, etc.

INTEREST in these markets centres round the home consuming trade, which has been of fair volume during the week. Values remain firm, and there are few price changes of importance.

ACONITE ROOT.—Stocks in first hands are limited and their value would be about 140s. per cwt., ex store.

AGAR.—Home trade demand continues moderate and values are about level on the week. Kobe No. 1 material is quoted on spot at about 8s. 3d. per lb. Kobe No. 2, about 8s.; and Yokohama No. 1, about 7s. 10½d. per lb., all duty paid, ex warehouse. Japanese shippers are not quoting.

ALKANET ROOT.—The value indicated for any material available is about 90s. per cwt. First-hand suppliers report that stocks are now practically exhausted.

ALOES.—Cape steady; spot material is at about 57s. 6d. to 60s. per cwt. Zanzibar leaves would be worth around 90s. per cwt., ex store, if available. Curaçao is in fair demand, with quotations in the region of 290s. to 310s. cwt., ex store, according to quality. Some forward offers via New York reported at 270s. per cwt., landed.

ANTIMONY.—Values fully steady. English regulus quoted at £106 to £107 per ton, ex warehouse; Continental regulus, £99 per ton, duty paid; Chinese crude, quoted at £98 to £99 per ton, ex warehouse.

BALSAMS.—Market steady as quoted, with all descriptions in short supply. Tolu, now about 8s. 6d. to 9s. per lb. Canada, about 5s. 6d. per lb. Copaiba, about 3s. 6d. to 3s. 9d. for Para. Peru, about 8s. 9d. per lb. All duty paid.

BELLADONNA.—Some root to arrive from India reported offered at 15s. per cwt., c.i.f. Leaves scarce and not quoted.

BENZOLIN.—Sumatra is quoted steady on spot at £5 10s. to £6 15s. per cwt. according to quality.

BISMUTH METAL.—One dollar 25 cents per lb., ex store, is the current price.

BUCHU.—Little business moving in this market. New-crop quoted on spot at from 2s. 8d. to 3s. per lb., according to quality.

CAMPOR.—The good demand for Japanese material continues. Spot, 6s. per lb. (business done); slabs, about 5s. 4d.; powder, not quoted. Some offers of American synthetic have been mentioned at about 5s. 3d. per lb., duty paid. Continental synthetic powder, 5s. 3d.; tablets, 5s. 6d. per cwt. ex store. English refined, quoted as follows: Flowers, one cwt., 5s. 9d.; 28 5s. rod; less than 28 lb., 5s. 11d. per lb. Transparent tablets, ½-oz., one cwt., 6s. 3d.; 28 lb., 6s. 4d.; less than 28 lb., 6s. 5d. per lb.

CANTHARIDES.—Small quantities of Chinese are reported available on spot at 4s. 6d. per lb., duty paid.

CARDAMOMS.—Not much business; market steady. Ceylon, spot, about 3s. 6d. to 5s. per lb., according to quality; Bombay seed, about 4s. 6d. per lb. Mangalore seed, about 4s. 3d.; Aleppy greens, about 3s. 2d. per lb.

Exports of cardamoms during February amounted to 200 cwt., valued at Rupees 44, compared with 300 cwt., valued at Rs. 38,000, in the corresponding month in 1939.

CASCARA SAGRADA.—Steady demand continues for 1938-39 peel, which is now offered at about 87s. 6d. to 95s. per cwt., duty paid, according to quality. Offers of new-crop bark are in the region of 65s. per cwt., c.i.f.

CASCARILLA.—Dealers' prices for spot supplies are steady at about 1s. per lb., with siftings at about 1s. 4d. per lb.

CHAMOMILES.—Good white flowers, in small parcels, quoted at 400s. cwt. on spot.

CLOVES.—Market firm. Spot and forward prices unchanged. Spot, Zanzibar, 8½d. per lb.; shipment, July-August, 9d. per lb., c.i.f.; Madagascar, 8d. per lb., in bond, nominal.

COCOA BUTTER.—Prime English on spot quoted at 1s. 0½d. per lb., duty paid, ex wharf; foreign, 1s. 1d. per lb., duty paid, ex store London.

COCONUT (DESICCATED).—Spot quotations firm. Fine, spot, advanced about 35s. per cwt.; medium, about 32s. 6d. per cwt.; halves, 32s. 6d. per cwt.

COD LIVER OIL.—Quotations for finest-quality British medicinal oil continue nominal. Norwegian position unchanged.

COLCHICUM.—Supplies are scarce. Spot value would be about 1s. 9d. per lb. for any available.

COLOCYNTH.—In small demand. Spot material is quoted at about 1s. 8d. per lb., ex store.

DANDELION ROOT.—No quotations available. First-hand supplies appear to be cleared.

DERRIS ROOT.—Some root testing about 18 per cent. ether extract is quoted at 8d. per lb. Root of about 4 to 5 per cent. rotenone would be worth about 1s. 2d. per lb., if available. No shipment offered.

DIGITALIS LEAVES.—Spot, in poor supply, values nominal. English grow report a promising crop, but state that prices will be dearer owing to increased costs.

ERGOT.—Spanish-Portuguese, spot, about 22s. 6d. per lb. Quotations for forward shipment have again been reduced, and a figure of 7s. 6d. per c.i.f. for July-August shipment, has been mentioned.

GAMBOGE.—More inquiry noted this week. Good-quality Siam pipe quoted at about £25 to £26 per cwt., duty paid.

GINGER.—Continues quiet; no change in quotations. West African, quoted on spot at about 28s. per cwt.; shipment, July-August, 23s., c.i.f. nominal. Jamaican, spot, small medium, 52s. 6d.; bold, in barrels, 85s. cwt., ex store. Cochin, unwashed, 45s. per cwt., ex store; shipment, 52s. per cwt., c.i.f.

GUM ACACIA.—Quoted dearer on spot. Kordofan cleaned sorts now valued at 85s. per cwt. shipment, 45s. per cwt., c.i.f., nominal.

HENBANE.—Spot supplies limited and values nominal.

ONEY.—Market firm and unchanged. Jamaican is quoted nominal at 10s. to 10½s. per cwt. Canadian, about 10s. to 10½s. per cwt., ex store, Australian, about 8½s. per cwt., ex store. Supplies limited.

YDRASTIS.—Spot supplies are valued at about 20s. per lb. for untested and about 23s. per lb. for tested material.

ECACUANHA.—Good-test Matto Grosso root is firmly held for about 27s. 8s. per lb., ex store; shipment, July–August, firm at about 24s. 9d. per lb., Minas is in better demand; spot, about 11s. 6d. to 13s. 6d. per lb., ordering to test and seller; shipment, July–August, business reported done 5s. 9d. per lb., c.i.f. EXT. IPECAC. 110s., 35s. 6d. per lb. for minimum lots of live winchesters.

ENTHOL.—Steady on spot. Chinese, in fair demand, quoted at about 16s. 6d. per lb., duty paid, according to brand; shipment, August–September, at 14s. 10½d. per lb., c.i.f. Japanese continues neglected; some odd cases reported available at about 20s. to 22s. per lb., according to seller.

MERCURY.—Unchanged at £54 10s. per bottle of 34½ kilos, ex warehouse London, without engagement and subject to confirmation.

ORANGE PEEL.—Thin-cut is valued on spot at 3s. 3d. per lb., ex store. Other quarters are scarce, and if available, would be worth about 1s. 4d. per lb.

PEPPER.—Steady; all quotations unchanged. Lampong, in bond, spot, tins at 2½d. per lb.; shipment, July–August, 2½d., c.i.f. Tellicherry, tins, 4½d.; shipment, July–August, 34s. per cwt., c.i.f. Aleppy, spot, 4½d.; shipment, July–August, 34s. per cwt., c.i.f. White Muntok, spot, duty paid, in bond, 4½d.; shipment, July–August, 3½d. per lb., c.i.f.

PEPPERMINT.—Quiet; quotations unchanged. Spot, about 10½d. per lb.; shipment, new-crop, August–September, 85s., sellers, c.i.f.

GUILLAIA BARK.—Offered on spot at about 75s. per cwt., ex store.

RHUBARB.—There is fair inquiry for all-pinkish rough-round, but little material is available on spot. Ordinary-quality rough-round is valued at between 4s. 10½d. and 5s. 3d. per lb., duty paid.

RUBBER.—Market closed quiet; moderate business. Standard ribbed sheet, spot, 12½d.; August, 12½d.; September, 12½d.; October–November, 11½d.; January–March, 11½d. per lb.

ANDARAC.—Spot stocks in London are small. Prime quality, quoted at 2s., duty free.

SEEDS.—ANISE.—Spot, Bulgarian, 90s., duty paid, and 85s., in bond. NARY. Spot, duty paid, Mazagan, 33s.; Morocco and Plate, quoted at 1s. 6d. CARAWAY. Dutch, quoted at 155s., duty paid. CORIANDER. Spot, 100c, offered at 32s. 6d., duty paid, and 31s., in bond; some business reported at these figures. CUMIN. Spot stocks small; Morocco, quoted at 2s., duty paid, and 95s., in bond. DILL. Spot, Indian, 37s. 6d., duty free, in London or Liverpool. FENNEL. Spot, Indian, 52s. 6d. to 57s. 8d., duty free; Iran, 55s., in bond. FENUGREEK. Spot, Morocco, 22s. 6d., duty paid, and 21s., in bond, ex store London or Liverpool. MUSTARD. Spot, 1s. 6d. to 67s., according to quality.

PEPENE.—Not much available on spot, and value would be about 3s. 6d. 3s. 9d. per lb.; material for shipment, July–August, after being quoted at about 2s. 4d., firmed up considerably to about 2s. 7d. to 2s. 8d. per lb., c.i.f.

PENNA.—Market continues firm as quoted. Best pale hand-packed Tinnely pods are in short supply and quoted at about 10½d. per lb., with darker ends at between 6½d. and 7½d.; i.a.q., 5½d. per lb., leaves, about 8½d. for No. 1, 5½d. for No. 2, and 4½d. for No. 3. It is understood that there is little likelihood of shipping facilities being available during July and August. Hand-picked Alexandrian nominal, with not much available on spot.

HELLAC.—Market quiet; quotations nominal. Spot, standard TN orange, 1s.; pure button, 105s.; fine orange, 110s. to 150s. per cwt.

TRAMONIUM LEAVES.—Spot in limited supply; values nominal.

RAGACANTH.—Finest selected white ribbon is quoted slightly dearer at £90, supplies limited. No. 1, white, is now worth £82 10s.; all other varieties quoted unchanged; No. 2, white, £70; No. 3, white, £55; pale leaf, £30; per leaf, £22; red leaf, from £10 10s.; woody and hoggy, from £5. All prices are per cwt., ex store London.

CURMERIC.—Spot, Madras and Rajapore finger, quoted at 42s. 6d. to 43s.

ALGERIAN ROOT.—Material in first hands reported scarce; no prices quoted.

ANILLA.—At auction on July 19, twelve tins were offered and sold under hammer:—

Quality	Length	per lb.
ANDA: "first," slightly crystallised, fair flavour ..	5 in. and 7 in.	28s. 6d. to 30s.
"first," little, mixed with foxy ..	5½ in. and 6½ in.	27s.
CHELLES: "first" and "second," rather mouldy ..	4 in. and 7½ in.	10s. to 12s.
badly tainted ..	4 in. and 6 in.	9s.
"third," very dry, poor flavour ..	—	7s. to 8s.
mixed grades, more or less mouldy ..	—	—

VAXES.—BEES.—Market steady. Spot, from 172s. 6d.; in bond, 157s. 6d.; shipment, Dar-es-Salaam, 157s. 6d. per cwt., c.i.f. Japanese, first three hands, spot, 120s., duty paid; 110s., in bond; shipment, 110s., c.i.f. RNAUBA. Fatty grey, 365s.; chalky grey, spot, 350s.; Primeira, spot, 465s.

Essential and Expressed Oils, etc.

SINSESS in these products has been quiet, with few price changes.

ALMOND.—Demand has been small. Spot, expressed, about 3s. 8d. to 3s. 11d. per lb., in cwt. lots, and up to about 4s. 3d. for smaller quantities, ex store. Genuine French bitter quoted at about 13s. 6d. to 14s. 6d. per lb., ex store.

ANISE.—Spot market continues dull. Spot, tins in cases, about 4s. 6d. per lb.; drums, about 4s. 4½d.; leads, about 4s. 6d. per lb.; no offers from China.

AVOCADO PEAR.—Quoted unchanged at from 55s. to 57s. per gall., delivered; smaller quantities at higher prices.

BAY.—Spot, from 5s. 3d. to 6s. per lb., ex store, according to quality.

BERGAMOT.—Spot value nominal and a matter for negotiation.

BOIS DE ROSE.—Firm, with quotations unchanged. Spot, about 10s. per lb.; no shipment offers.

CASSIA.—Firm on spot, with leads valued at about 5s. 9d. per lb. and drums at lower figures.

CITRONELLA.—Ceylon, spot, quoted at about 2s. 4d. to 2s. 6d. per lb., in drums; small quantities, up to about 3s. per lb.; shipment, drums, easy at about 1s. 6½d. per lb., c.i.f. Java, quoted unchanged at about 2s. 6d. to 3s. per lb. for spot supplies; shipment continues at in the region of 1s. 9d. per lb., c.i.f.

Exports of citronella oil during February amounted to 89,000 lb., valued at Rupees 86,700, compared with 105,000 lb., valued at Rs. 103,000 during the corresponding month of 1939.

CRVET.—Highest-quality material is now quoted on spot at about 30s. to 35s. per oz.

CLOVE.—Some inquiry this week. Madagascar, quoted at about 5s. 6d. upwards per lb., in drums, if available. English distilled, firm at about 7s. to 7s. 3d. per lb., according to quantity.

EUCALYPTUS.—Spot quotations for 70 to 75 per cent. oil continue at about 4s. to 4s. 6d. per lb., according to holder; shipment prices are nominal at about 3s. per lb., c.i.f.

GERANIUM.—Firm, with little material available. Bourbon, spot, nominal and price for good-quality oil would be a matter for negotiation. Algerian, unchanged at about 24s. 6d. per lb.; no shipment offers.

GRAPEFRUIT.—About 12s. 6d. would be the value per lb. of genuine Californian oil; genuine Florida, about 11s. 6d. per lb.

LEMON.—No change in the position of Sicilian hand-pressed, which continues nominal on spot, and for which prices would have to be negotiated. Regular-quality Californian distilled, quoted at 9s. 6d. per lb., ex wharf; shipment prices for cold-pressed are not available.

LEMONGRASS.—Spot is now worth about 4s. to 4s. 6d. per lb.; shipment, easy at about 3s. or less per lb., c.i.f.

LIME.—Genuine West Indian continues to be quoted at about 30s. per lb., with other qualities at lower prices.

LINSEED.—The controlled price for large bulk quantities of crude, naked ex works, is unchanged at the recent reduction to £44 per ton. Distributors' prices for ordinary quantities of crude or boiled, packed and carriage paid, would be at higher figures.

NEROLI.—80s. per oz. is the approximate value of pure French oil.

OLIVE.—The Ministry of Food controlled price paid by importers for large bulk quantities in 50-gall. drums is unchanged. Distributors' prices for a few gallons, packed in gallon tins, carriage paid, now range from 12s. 6d. to 13s. 6d. per gall., according to quantity.

ORANGE.—Not much business moving in this product. French Guinea oil is quoted at around 5s. 6d. to 6s. per lb. Californian is quoted in sterling at 4s. 10d. per lb., in small drums, ex store, duty paid, limited supplies only being available.

OTTO OF ROSE.—Bulgarian is now valued at about 60s. per oz.

PALMAROSA.—Market firm, quotations unchanged. Spot, about 12s. 6d. per lb., ex store; shipment, around 10s. 9d. per lb., c.i.f.

PATCHOULI.—Genuine Singapore oil is quoted on spot at about 45s. per lb. Seychelles oil is worth about 42s. per lb., nominal, with supplies poor; no shipment offers.

PEPPERMINT.—Both Japanese and Chinese oils have been in better demand. Odd cases of Japanese are quoted at 9s. 6d. per lb. A fair spot business has been done in Chinese, and values are at about 6s. 9d., in drums, and 7s. to 7s. 3d., in tins; shipment, August and September, from Shanghai, offered at 6s. 3d. per lb., c.i.f., subject to freight being available. American natural, steady at 14s. 3d., in drums, and 14s. 6d., in tins or cases, c.i.f. Spot, about 16s. per lb., ex store.

PETITGRAIN.—Market firm, no change in quotation. Spot, 10s. 6d. to 12s. 6d. per lb., nominal, no shipment offers.

ROSEMARY.—Spanish, about 4s. 6d. to 5s. per lb., ex store, if available.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, 19s. per lb. East Indian, produced outside the province of Mysore, 18s. per lb. for bulk quantities. English-made West Indian, 15s. per lb.; Australian, one-case lots, 16s., and five-cwt. lots, 15s. 6d. per lb.

SPIKE.—Good-quality Spanish oil firmer at between 10s. and 12s. per lb., ex store.

TURPENTINE (AMERICAN).—Steady: London, 54s. 9d. per cwt., tax paid, in barrels, ex wharf; Liverpool, 61s., in barrels, ex store.

VETIVERT.—The value of Bourbon on spot would be about 35s. per lb., and Java, about 27s. 6d. to 30s. per lb., ex store.

WORMSEED.—Market steady, quotations unchanged. Spot, around 24s. 6d. per lb., shipment, about 23s. per lb., c.i.f.

Synthetics.—The following are the current prices:—AMYL ACETATE, pure 110s., technical, 105s. per cwt., in cwt. cases; small quantities, up to 2s. per lb. AMYL SALICYLATE, 3s. 3d. to 3s. 9d. per lb. AUBEPINE, ex para cresol, 16s. to 17s. per lb., nominal; ex anethol, 16s. to 17s. per lb. BENZALDEHYDE, 2s. 9d. to 3s. 6d. per lb. BENZYL ACETATE, 2s. 9d. to 3s. 3d. per lb. BENZYL ALCOHOL, 2s. 6d. to 3s. 6d. per lb., nominal. BROMSTYROL, 100 per cent., 17s. per lb. CITROL, chemically pure, 9s. to 11s. per lb. for good quality. COUMARIN, English makers quote nominal at about 13s. 6d.; imported material, up to 25s. per lb. or more. ETHYL PHTHALATE, about 1s. 6d. per lb. for cwt. lots and up to 2s. 9d. for smaller quantities. EUGENOL, 9s. to 11s. per lb. GERANIOL, ex palmarosa, 20s. per lb. HELIOTROPIN, 100 per cent. crystals, quoted nominal at 25s. per lb. ISOEUGENOL, 11s. to 12s. per lb. METHYL ANTHRANILATE, 16s. per lb., nominal. MIRBANE, cwt. lots, 9d. per lb.; small quantities at higher prices. MUSK KETONE, price now 30s. per lb. MUSK XYLOL, 9s. per lb. MUSK AMBRETTE, 27s. 6d. per lb. PHENYL ETHYL ALCOHOL, 14s. 6d. per lb., nominal. SAFROL, pure, 8s. per lb. TERPINEOL, 2s. 3d. to 2s. 9d. per lb., nominal.

COMMERCIAL NOTES

United States Gum Tragacanth Imports.—The following table shows United States gum tragacanth imports in lb. during the years 1937-39:—

Country of Shipment	1937	1938	1939
France	76,131	2,305	8,960
Germany	4,630	440	4,196
Sweden	56,000	—	5,075
Russia	836,308	359,261	23,025
United Kingdom	11,346	4,084	8,792
British India	239,246	8,122	—
Iran	1,775,900	649,434	2,917,616
Iraq	93,089	30,895	1,321
Palestine	—	—	5,450
Syria	104,503	—	—
Turkey	47,841	19,559	90,241
Total	3,244,994	1,074,100	3,064,676

Canadian Vanillin Imports.—Imports of vanillin into Canada during 1939 totalled 11,843 lb., valued at \$27,697, compared with 8,589 lb., valued at \$24,101, during 1938.

Union of South Africa Buchu Exports.—The following table gives particulars of exports of buchu leaves from the Union of South Africa during the years 1939 and 1938:—

Country of Destination	1939		1938	
	lb.	£	lb.	£
United Kingdom	72,012	3,685	61,955	3,353
India	300	13	400	25
Australia	14,132	892	9,353	661
New Zealand	—	—	582	33
France	2,487	124	3,193	207
Germany	23,118	1,209	17,713	1,068
U.S.A.	165,174	7,923	93,606	5,932
Total	277,223	£13,846	185,902	£10,379

United States Psyllium Seeds Imports.—The following table shows imports of psyllium seeds into the United States during the years 1936-39:—

Country of Shipment	1936		1937		1938		1939	
	lb.	\$	lb.	\$	lb.	\$	lb.	\$
France	1,342,710	96,544	1,046,129	77,888	803,639	65,858	728,260	65,786
Spain	10,000	1,020	11,023	547	13,228	917	—	—
British India	1,711,938	108,212	2,081,353	232,665	1,819,494	210,054	1,455,482	134,037
Belgium	9,924	333	6,503	343	—	—	—	—
Italy	15,328	1,255	40,058	2,926	—	—	—	—
Iraq	3,340	134	—	—	—	—	—	—
Total	3,092,140	207,498	3,185,066	314,369	2,636,361	276,829	2,183,742	199,823

Medicinal Plant Cultivation in Greece.—It is reported that efforts to promote cultivation of medicinal plants in Greece are being intensified. Three years ago experimental fields were laid out with peppermint, and the results were so favourable that in the first year 4,000 kilos were provided for the pharmaceutical industry. Since then the cultivation of peppermint has been put on a commercial basis, and all State plantations are now equipped with distillation apparatus, which is also at the disposal of private cultivators. The Greek government is now to commence cultivation of belladonna, stramonium, henbane, valerian, mallow, etc.

Union of South Africa Aloes Exports.—The following table gives particulars of exports of aloes from the Union of South Africa during the years 1939 and 1938:—

Country of Destination	1939		1938	
	lb.	£	lb.	£
United Kingdom	198,879	2,574	92,662	1,366
India	7,840	122	9,551	175
Palestine	1,097	13	—	—
Hong Kong	56,662	884	14,739	313
British Malaya	19,013	229	18,584	302
Southern Rhodesia	100	2	186	8
Canada	—	—	2,240	51
Australia	17,626	255	9,948	203
New Zealand	1,771	22	2,707	59
Belgium	13,638	162	12,832	233
Denmark	23,889	383	7,652	164
France	71,045	884	85,403	1,485
Indo-China	—	—	20,816	358
Syria	2,349	35	—	—
Germany	249,919	3,810	355,331	6,775
Holland	24,844	378	48,430	998
Italy	87,206	1,377	102,335	1,867
Poland (including Danzig)	42,766	518	41,583	879
China	—	—	3,145	45
Iraq	3,426	40	—	—
Japan	29,247	321	112,296	1,879
Thailand	99,031	1,041	55,239	959
Egypt	14,272	227	21,572	336
United States of America	99,334	1,005	54,047	1,318
Cuba	—	—	941	25
Uruguay	5,487	97	5,225	108
Total	1,039,441	14,379	1,078,124	19,597

POINTS FROM LETTERS

Appreciation

I am enclosing what I believe is my forty-second or -third subscription to the *C. & D.* I would briefly like to say I have found information in its columns of great value.—*J. M.* (18/7).

One-man Businesses

The reasonableness shown in the memorandum issued by the Central Price Regulation Committee (*C. & D.*, July 13, p. 20) will be welcomed by owners of one-man businesses. It is only fair that the working proprietor of an individual shop should be allowed to charge his salary as part of his overhead expenses, and a just way to estimate the amount is to put it on the same level as that of a manager. In a chemist's business this amount may vary according to circumstances. Some firms pay their managers a basic salary with commission on sales, so that the total salary may be variable and indefinite. For the purpose of the Order an average will have to be fixed, and this will probably be around £5 per week, anything accruing to the proprietor over and above this sum being reckoned as profit on invested capital and therefore not an "expense."—*Salaried* (13/7).

Local Clearing Houses

Mr. L. Edwards, in his letter on "Limitation of Supplies" (*C. & D.*, July 20, p. 38) puts forward a practical scheme for mutual assistance between chemists in his immediate neighbourhood. In doing so he shows himself willing to shoulder the burden of a good deal of extra clerical work, and probably some amount of extra capital outlay, and his readiness to do these things is probably the best guarantee that his plan will be successful. If it proves workable in a London district, then a fortiori a similar scheme in provincial centres should facilitate trading during time of considerable difficulty. In each district a chemist must, of course, be found who is willing to do the "donkey work." It is right that all chemists who subscribe to the idea should undertake the same obligation suggested in Mr. Edwards' fifth point: buying up to full quota. One hopes to hear more of this scheme.—*A. Wilson* (20/7).

Proprietaries under N.H.I.

Your correspondent "Equivox" (*C. & D.*, July 20, p. 38) expresses doubt whether the Stirling Insurance Committee would pay for disallow a prescription for a proprietary which was dispensed by a chemist even though an official or official equivalent existed. Surely the Committee would be bound to pass the chemist's account, however much it might deprecate the waste of public moneys involved, and withholding of payment decided upon would be entirely at the expense of the prescriber. Certainly this would be the case in England, and there may be differences of procedure between the two countries which would be met. The principle is specifically set down in the notes "Pharmaceutical Service under N.H.I. Acts" given in your *Diary Year Book*, 1940, p. 244.—*Equitas* (22/7).

MISCELLANEOUS INQUIRIES

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

Astringent Nasal Ointment.—*T. L. S.* (17/7).—An ointment with astringent properties for application to the nose can be made from the following formula:—

Solution of aluminium acetate	1.0 c.c.
Lanolin	6.0 gm.
Liquid paraffin	10.0 c.c.

Ponder's Diphtheria Stain.—*M. L.* (15/7).—Ponder's or Ponder's stain is used for the examination of a diphtheria swab and is used by dabbing a loopful of the stain on the dried smear. The smear is then examined by the hanging-drop method. *C. diphtheriae* appears blue with bright and often deeply-stained red granules along its entire length. The stain is made up as follows:—

Toluidine blue	0.02 gm.
Glacial acetic acid	1.0 c.c.
Dehydrated alcohol	2.0 c.c.
Water to	100.0 c.c.

Wear and Tear Allowance.—*G. S.* (26/6).—Wear and tear allowance on fixtures and should be claimed. It was stated in "Herald" in 1932 that the wear and tear allowance applied to shop fittings. The terms "fixtures and fittings" should include all items which can be so called, such as counters, shelves, showcases, chairs, etc., but the cost of a shopfront. The usual allowance is 5 per cent., but in certain circumstances 7½ per cent. or 10 per cent. will be allowed, at the discretion of the Commissioners. Wear and tear should be claimed year by year; consequently only by concession will a claim be allowed for previous periods. If an error or mistake is proved, however, it can be maintained for six years. Finally, however, it must be appreciated that if renewals are claimed, wear and tear is not allowed.

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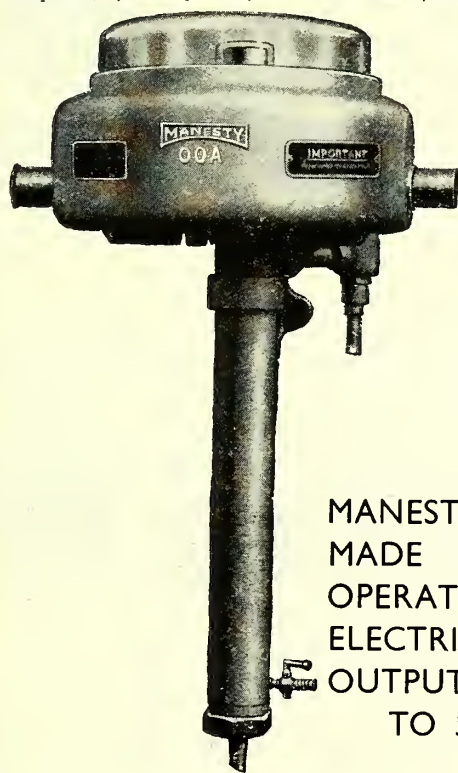
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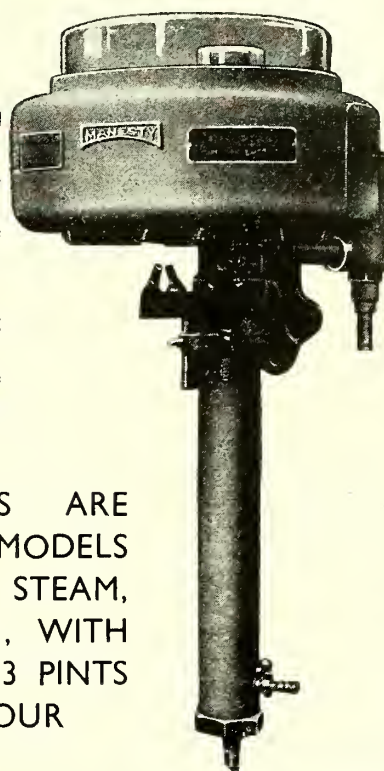
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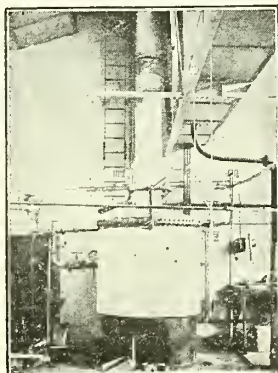
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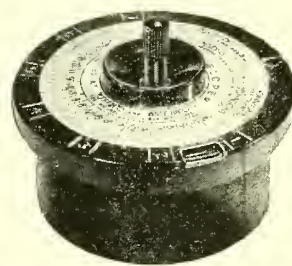
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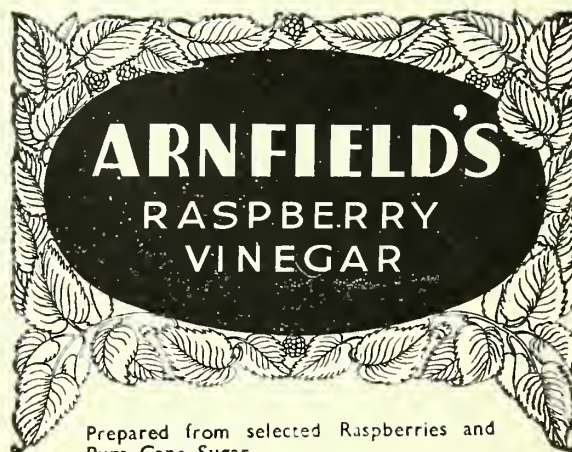
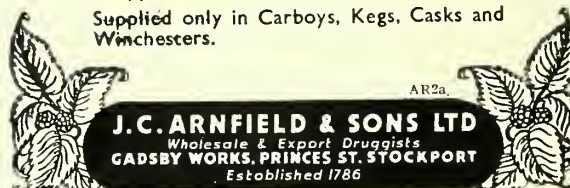
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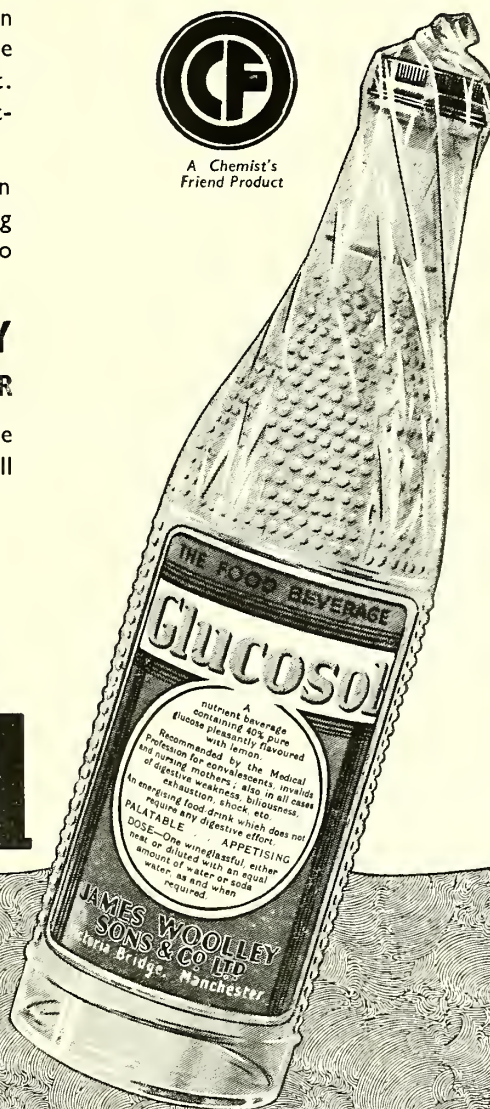
Trade: 16/- per dozen

Glucosol

THE FOOD BEVERAGE



A Chemist's
Friend Product



WG78b

JAMES WOOLLEY, SONS & CO. LTD., VICTORIA BRIDGE, MANCHESTER, 3.

Dr. J. Collis Browne's Chlorodyne
and
The Pharmacy and Poisons Act, 1933

Dr. J. Collis Browne's
CHLORDYNE

SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED

Sole Proprietors :
J. T. DAVENPORT LTD.



**Union St.,
London, S.E.1**

COMPOUND SYRUP OF HYPOPHOSPHITES



Many of your customers know that the "FELLOWS" brand is the best syrup of hypophosphites that money can buy.

The name is a guarantee of purity ; and no effort is spared to maintain the excellence of this Syrup.

Because it commands the confidence of the Medical Profession, and of the public, the sale and recommendation of "FELLOWS" will enhance your prestige, and add distinction to your pharmacy.

Laboratories :

UNITED STATES, ARGENTINE, AUSTRALIA,
CHILE, COLOMBIA, GERMANY, ITALY,
MEXICO, SPAIN, NEW ZEALAND,
ROUMANIA.

FELLOWS MEDICAL MFG. CO., LTD.
286, ST. PAUL STREET WEST,
MONTREAL . . . CANADA.

MORE and MORE
PEOPLE are TAKING

SAMONA

THE WONDERFUL MEDICAL RESTORATIVE

Which brings IMMEDIATE RELIEF in all cases of

NERVE STRAIN

DEPRESSION

SLEEPLESSNESS

TIRED and LISTLESS APPEARANCE

**MENTAL and PHYSICAL
EXHAUSTION**

P.A.T.A. Terms
From all Wholesale Houses

Semona Brand Tablets are supplied in two forms:

No. 1 for Men (Orange Tablets);

No. 2 for Women (Brown Tablets).

Retail price 3s. and 5s. (more than double quantity)

SAMONA, LTD., 16 CHARTERHOUSE STREET, LONDON, E.C.4

JACKSON'S BONUS OFFER

AUG. 1—SEPT. 7

Don't miss the
date.

Make your
order a pay-
ing one.

13 to the dozen on
all orders of 1/3d.,
3/- and 5/- size
**JACKSON'S
FEBRIFUGE**

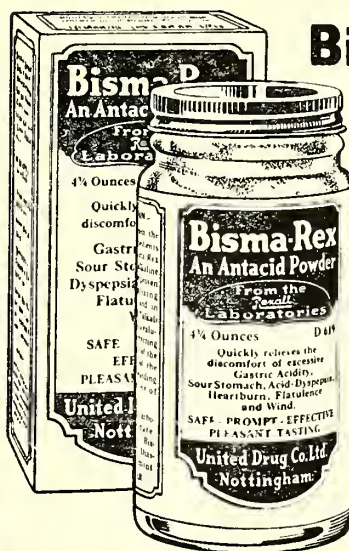
**ORDER NOW THROUGH YOUR
WHOLESALE. THIS IS THE ONLY
BONUS OFFER FOR THE SEASON**

G. JACKSON & SONS LTD., HARPURHEY, MANCHESTER

*Two
highly successful
remedies*

exclusive to the

Rexall PHARMACY



Bisma-Rex

**STOMACH
POWDER**

Retail

2/-

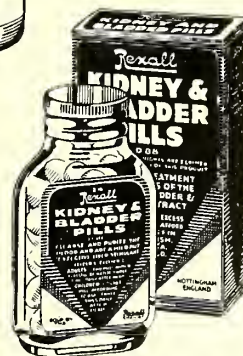
per bottle

Larger size
5/6

Rexall

**KIDNEY AND
BLADDER PILLS**

Two
Sizes **1/3 & 2/9**



Enquiries from districts not covered by a
Rexall Agency will receive every attention.

**UNITED DRUG COMPANY LTD.
NOTTINGHAM**

C.F.H.

MEMORANDUM

Sumner's for —
DRUGS, GALENICALS,
SURGICAL INSTRUMENTS,
PROPRIETARY REMEDIES
and DRESSINGS

Memo. for
NORTHERN
PHARMACISTS

R. SUMNER
& CO. LTD.
Manufacturing Chemists
HANOVER STREET, LIVERPOOL, I. Telephone: Royal 6644

MEMORANDUM

Sumner's for —
Vitasac
The PERFECT BABY FOOD

Vitasac succeeds where other diets fail. It is a scientific preparation of vitamins and essential food elements—added to scalded cows' milk to provide the "perfect baby food." Recommended in all cases of insufficient nutrition.

Regularly advertised in a selected list of national magazines.



A LONDON CHEMIST writes:—

"I am delighted to recommend Dr. Singha Tablets to my Asthma-suffering customers, as I am convinced there is no remedy to equal it."

**IT WILL PAY YOU TOO TO
RECOMMEND AND SELL**

DR SINGHA
BRAND
ASTHMA TABLETS

The ORIGINAL
and STILL the BEST REMEDY for
ASTHMA
BRONCHIAL TROUBLES
BREATHING DIFFICULTIES
CHOKING PAROXYSMS

P.A.T.A. Terms
From all Wholesale Houses

1/6, 3/6, 5/6, 12/6, 20/6

The DR. SINGHA CO., LTD., CAERNARVON, G.B.

Change of Address

FRANKLIN & COOK
SALES AGENCY LTD
has moved to
BOLTON HOUSE, 61 CURZON ST
GROS 3391 S.W.1

COMPOSITION STOPPERS
BAKELITE MOULDINGS
COMPACTE COSMETIC & ROUGE BOXES



200 Varieties
Any Colour.

A suitable Composition Stopper will enhance the selling value of your package. Let us fit your Bottles and quote you.



W. J. SHARPLIN, Ltd. Telephone: Mountview 3952
Middle Lane Works, Hornsey, LONDON, N.8

THE BIGGEST ADVERTISER gets you the BIGGEST SALES!

IF you display 'ASPRO' advertising material!



Thousands of chemists have proved positively that when they consistently display 'ASPRO' advertising matter their sales go up by leaps and bounds. The reason for this is that 'ASPRO' is the largest advertised proprietary line. Millions of people read 'ASPRO' advertisements, so the chemist who gives displays of 'ASPRO' advertising matter gets the benefit of the advertising just as if he put in the advertisement in his own name. The result is that new customers are brought into his shop. He not only sells 'ASPRO' but his own goods as well. Advertising is a live, active force. Contact with it and you get the benefit of its sales activity. Why not try this out yourself to-day?

HERE'S A TYPICAL 'ASPRO' WINDOW SHOW



'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

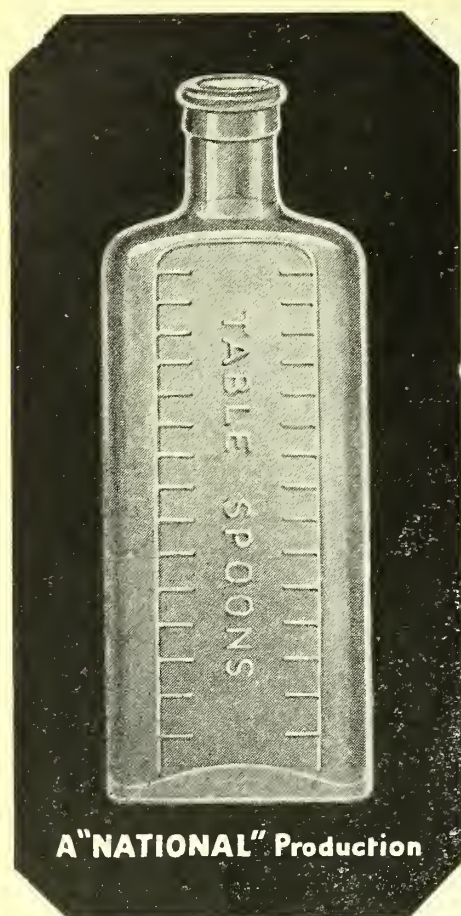
Made in England by
ASPRO LIMITED
SLOUGH, BUCKS.

Telephone: Slough 22381

No proprietary right is claimed in the method of manufacture or the formula.

PUBLIC NOTICE

No increase in 'ASPRO' prices. They remain the same as pre-war. If unforeseen circumstances cause any revision adequate notice will be given.



"National" Dispensing Bottles

are Strong, Serviceable and Sure-sealing!

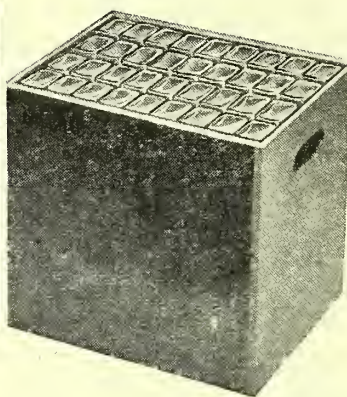
NEATLY PACKED IN 6 DOZEN
NON - RETURNABLE CARTONS

- ★ CONVENIENT IN SIZE
- ★ EASY TO HANDLE
- ★ UNIFORM IN QUANTITY

ALSO . . . Cork mouth Bottles
WASHED & PAPERED
Screw mouth Bottles
WASHED & CAPPED

SCREW CAPS SUPPLIED in

WHITE - ENAMELLED TIN PLATE
WHITE - ENAMELLED ALUMINIUM
BLACK BAKELITE MOULDED



Vials

HAVE YOU GOOD STOCKS OF
"NATIONAL" VIALS?

Ranging in size $\frac{1}{2}$ oz. up to 3 oz.
Plain or teaspoon graduations
Medium & tall types

MANUFACTURED IN BEST QUALITY
WHITE FLINT, AND PACKED IN FREE
NON-RETURNABLE CARTONS



May we advise Name and Address of nearest "NATIONAL" distributor?

NATIONAL GLASS WORKS (YORK) LTD.

'Phone: HOLborn 2146

First Avenue House, High Holborn, London, W.C.1
(WHOLESALE ONLY)

WORKS:
FISHERGATE, YORK

The CHEMIST AND DRUGGIST LIST OF RETAIL PRICES

Based on the Prices of Goods Act, 1940
OF DRUGS, CHEMICALS AND GALENICALS

Cost in d.		Per	Ac—Co	Selling Price			Cost in d.		Per	Co—Li	Selling Price		
1939	Aug. 1940			lb.	4 oz.	1 oz.	Aug. 1939	Aug. 1940			lb.	4 oz.	1 oz.
				s. d.	s. d.	s. d.					s. d.	s. d.	s. d.
8	8	lb.	Acetum destillatum album ..	1 0	0 4	0 1½	38	42	lb.	Confectio sulphuris ..	5 5	1 6	0 5
7	7	lb.	Acid. aceticum dilutum ..	0 10	0 3	0 1	12	15	lb.	Coriand. pulvis (crs.) ..	1 9	0 6	0 2
10-5	10-5	lb.	Acid. boricum cryst. ..	1 2	0 4	0 1½	33	39	lb.	Crem. zinci B.P.C. ..	—	1 3½	0 4
11-5	11-5	lb.	Acid. boric pulv. subtil. ..	1 3	0 5	0 2	18	24	lb.	Cresol ..	—	0 10½	0 3
9-5	9-5	lb.	Acid. boric pulvis coml. ..	1 1	0 4	0 1½	15	17	lb.	Creta c. camph. 10 per cent. ..	2 0	0 7	0 3
5	5	lb.	Acid. carbol. (disinf. powder) ..	0 9	—	—	7	7-5	lb.	Cretæ Gall. pulvis ..	1 0	0 4	0 2
33	33	lb.	Acid. citric pulvis ..	3 9	1 1	0 3½	6	6	lb.	Creta præparata ..	1 0	0 4	0 2
8	8	lb.	Acid. hydrochlor. coml. P. II ..	1 0	0 4	0 2	18	19	lb.	Cupri sulphas ..	2 3	0 8	0 3
22	22	lb.	Acid. oxalic. coml. ..	2 6	0 8½	0 2½	8	8-5	lb.	Cupri sulphas coml. opt. ..	1 1	0 5	—
9	9	lb.	Acid. sulph. dil. ..	—	0 5	0 2	11	14	lb.	Curcumæ rhizoma ..	1 7	0 6	0 1½
9	9	lb.	Acid. sulph. coml. ..	1 3	0 5	0 2	14	17	lb.	Curcumæ rhizomæ pulvis ..	2 0	0 7	0 2
37	37	lb.	Acid. tartarici pulvis ..	4 3	1 2½	0 3½	30	33	lb.	Derris pulv. ..	4 1	1 1	0 4
19	19	lb.	Aloe Capensis ..	—	0 7½	0 2	34	45	lb.	Elixir cascariæ sag. ..	—	1 6	0 5
25	25	lb.	Aloe Capensis pulvis ..	—	0 10½	0 3	33	38	lb.	Elixir sennæ fructus B.P.C. ..	—	1 4½	0 4½
13	13	lb.	Alumen ..	1 8	0 7	0 2	24	30	oz.	Ess. amygdalæ, 1 in 16 ..	—	—	3 10½
5	5	lb.	Alumen coml. ..	0 7	0 2	0 1	48	45	lb.	Ess. menth. pip. B.P.C. ..	—	1 8	0 5
15	15	lb.	Aluminis pulv. ..	2 0	0 1	0 2	26	33	oz.	Ess. menth. pip. (exot.), 1 in 10 ..	—	—	3 5
12	12	lb.	Ammon. carb. coml. ..	1 4½	0 5	0 2	10	10	oz.	Ess. pulegii, 1 in 10 ..	—	1 0	0 2
12	12	lb.	Ammon. carb. coml. pulv. ..	1 4½	0 5	0 2	33	40	oz.	Ess. vanillæ fort. ..	—	—	5 2
12	12	lb.	Ammon. chloridum coml. ..	1 4½	0 5	0 2	87	99	lb.	Ess. zingiberis ..	12 3	3 5	0 10½
6	6	lb.	Ammon. sulphas coml. ..	0 8	0 3	—	34	42	lb.	Ext. cascariæ sag. liquidum ..	5 2	1 5	0 5
7-5	7-5	lb.	Amyli pulvis (maize) ..	0 10	0 3	0 1	30	32	lb.	Fehling's solution 1, 2, or mixed ..	—	1 7	0 5
12	12	lb.	Amyli pulvis (rice) ..	1 4½	0 5	0 1½	34	43	lb.	Ferri et ammonii citras ..	—	2 4	0 7
12	12	lb.	Anethi fructus E.I. ..	1 3	0 5	0 2	21	26	oz.	Ferri et quiniæ citras ..	—	—	3 7
18	18	lb.	Anethi fructus pulvis ..	2 0	0 7	0 2	4	4-5	lb.	Ferri sulphas coml. ..	0 5	0 11½	0 1
30	30	lb.	Anisi fructus pulvis ..	3 5	1 1	0 3½	14	20	lb.	Fœniculi pulvis (coarse) ..	2 0	0 7	0 2
28	28	lb.	Anisi fructus pulvis (crs.) ..	3 3	1 0	—	7	9	lb.	Fœnugreci sem. pulvis (crs.) ..	0 8	0 2½	—
63	63	lb.	Anthemidis flores Ang. ..	—	2 0	0 6	5	5	lb.	Fuller's earth ..	0 9	0 3	—
72	72	lb.	Anthemidis flores exot. ..	—	2 4	0 7	14	15	lb.	Glycerinum ..	2 5	0 9	0 3
18	18	lb.	Antim. nig. pulv. ..	2 1	0 6	—	20	21	lb.	Glyc. boracis ..	—	0 10	0 3
20	20	lb.	Aqua rosæ trip. opt. ..	2 4	0 8	0 3	14	14	lb.	Glyc. et aqua rosæ, 1 in 3 ..	2 0	0 7	0 2
21	21	lb.	Aqua sambuci trip. ..	2 4	0 9	0 3	11	13	lb.	Glyc. thymolis co. ..	1 8	0 7	0 2
21	21	lb.	Areca pulvis ..	—	0 6½	0 2	16	20	lb.	Hennæ folia ..	—	0 8	0 2½
42	42	doz.	Argenti nit. ind. (in wood) ..	6 d. each	—	—	16	20	lb.	Hennæ folia pulv. ..	—	0 8	0 2½
5	5	lb.	Bay salt ..	0 7	0 3	—	132	180	lb.	Hydrarg. perchlor. S.I, P. II (4) ..	—	—	1 10½
32	32	lb.	Benedict's reagent (qualit.) ..	4 4	1 4	—	153	240	lb.	Hydrarg. persulphas alb. ..	—	8 6	2 4
16	16	lb.	Benzenum ..	1 9	0 6	0 2	108	324	lb.	Hydrargyrum, wgt. ..	—	11 2	3 0
7	7	lb.	Borax coml. cryst. ..	0 10½	0 3	0 1	28	48	lb.	Insect powder (Dalm.) ..	5 10	1 8	0 5½
8	8	lb.	Borax purificatus cryst. ..	0 11	0 3	0 1	20	38	lb.	Insect powder sec. ..	4 7	1 4	0 4
8	8	lb.	Boracis purificati pulvis. ..	0 11	0 3	0 1	84	108	lb.	Iridis rad. flor. trimmed ..	—	3 10	1 0
7	7	lb.	Boracis coml. pulvis ..	1 10	0 3	0 1	20	25	lb.	Iridis rad. flor. pulv. ..	3 1	0 11	0 3
7	7	lb.	Calcii carbonas ..	1 0	0 4	0 2	8	9	lb.	Lapis pumicis elect. ..	1 2	0 4	0 2
13	13	lb.	Calcii phosphatis acid. pulv. ..	1 6	0 6	0 2	5	6	lb.	Lapis pumicis pulvis ..	0 9	0 3	0 1
7	7	lb.	Calcii sulphas ..	0 10	0 3	0 1	7	8	lb.	Lapis pumicis pulvis levig. ..	0 11½	0 4	0 2
11	11	lb.	Calx chlorinata (1-lb. tins) ..	1 3	—	—	6	9	lb.	Lini semina Ang. sifted ..	1 4	0 4½	0 2
78	78	lb.	Calendula flores ..	—	2 5	0 7½	5-5	9	lb.	Lini semina contusa ..	1 2	0 4	—
138	138	lb.	Camphora (½-oz. tablet) ..	—	—	1 2	24	48	lb.	Lin. camphoræ ..	5 9	1 8	0 5
48	48	lb.	Cera alba in massa ..	5 6	1 5	0 4½	—	38	lb.	Lin. camphoræ (arachis oil) ..	4 9	1 4	0 4½
51	51	lb.	Cera alba in placentis ..	5 10	1 6	0 4½	57	84	lb.	Lin. methyl salicylatis ..	—	3 0	0 9
54	54	lb.	Cera flava Ang. ..	6 9	2 0	0 7	66	78	lb.	Lin. methyl salicylatis co. ..	—	2 10	0 9
43	43	lb.	Cera flava exot. ..	5 0	1 4	0 4	12	15	lb.	Lin. saponis meth. ..	2 0	0 7	0 2
30	30	lb.	Cetaceum ..	3 3	1 0	0 4	8-5	10	lb.	Liq. ammoniæ dil. P. II (9) ..	1 4	0 5	0 1½
30	30	lb.	Cinnamoni cort. pulvis opt. ..	—	1 0	0 4	10	11	lb.	Liq. amm. fort. -880 P. II (9) ..	1 4	0 5	0 1½
34	34	lb.	Collodium flexile meth. ..	—	—	0 4	21	22	gal.	Liq. calcii hydroxid. ..	—	Pint	0 5
12	12	lb.	Colophonium ..	1 4	0 5	0 1½	8	8	lb.	Liq. hydrogenii perox., 10 vol. ..	1 0	0 4	0 2
30	30	lb.	Composition essence ..	—	1 0	0 4	11	12	lb.	Liq. hydrogenii perox., 20 vol. ..	1 6	0 4	0 2
21	21	lb.	Confectio sennæ ..	2 4½	0 9	0 3	24	25	lb.	Liq. iodi. decoloratus (meth.) ..	—	1 0	0 4
36	36	lb.	Confectio sennæ et sulph. ..	4 7	1 2	0 3½	69	87	lb.	Liq. iodi. mitis ..	10 7	3 1	0 9½

Cost in d.		Per	Li—Pu	Selling Price			Cost in d.		Per	Pu—Zi	Selling Price		
Aug. 1939	Aug. 1940			lb. s. d.	4 oz. s. d.	1 oz. s. d.	Aug. 1939	Aug. 1940			lb. s. d.	4 oz. s. d.	1 oz. s. d.
54	75	lb.	Liq. quiniæ ammon. . .	—	2 8	0 8	15	16	lb.	Pulv. glycyrrhizæ co. . .	2 0	0 7	0
78	84	lb.	Liq. quiniæ et cinnam. . .	—	3 0	0 9	15	16	lb.	Pulv. zinc. c. amylo et ac. bor. . .	2 0	0 7	0
8	8	lb.	Lotio acidi borici, 1 in 32 . .	1 0	0 4	0 2	8	9	lb.	Quassia ligni rass. . .	1 0	0 4	0
12	12	lb.	Lot. ac. carb. rub., 5%, P. II (12) . .	1 8	0 6	0 2	41	64	oz.	Quinin. sulphas. . .	—	—	dr. m. 1
16	17	lb.	Lotio calaminæ B.P.C. . .	2 0	0 7	0 2	264	222	lb.	Rhei rhiz. "E.I." elect. . .	—	8 0	2
8	8	lb.	Lot. plumbi . . .	1 0	0 4	—	14	16	lb.	Saccharum lactis pulv. . .	2 0	0 7	0
12	12	lb.	Lysol . . . P. II (9 or 12) . .	1 6	0 6	—	18	20	lb.	Saccharum ustum Ang. . .	—	0 10	0
32	36	lb.	Magnesia levis . . .	4 6	1 4	0 4	11	14	lb.	Saccharum ustum exot. . .	—	0 7	0
18	22	lb.	Magnes. carbonas ponderosus . .	2 9	0 10	0 3	72	156	lb.	Safrol . . .	—	5 4	1
7	8	lb.	Magnes. sulphatis pulvis . .	1 0	0 4	0 2	18	18	lb.	Sal acetos. pulv. . . P. II (10) . .	—	0 8	0
10	10	lb.	Magnes. sulphatis pulvis exsicco. . .	1 3	0 5	0 2	19	20	lb.	Sal prunellæ glob. parv. . .	2 5	0 9	0
3	4.5	lb.	Magnis. sulphas coml. . .	0 6	0 2	—	54	57	lb.	Sennæ folia Alex. opt. . .	—	2 2	0
39	42	lb.	Maranta Bermuda . . .	5 3	1 6	0 5	30	36	lb.	Sennæ fol. Tinnev. . .	—	1 0	0
24	27	lb.	Maranta St. Vincent opt. . .	3 4	1 0	0 3	108	168	lb.	Sennæ fructus Alex. (picked) . .	—	6 0	1
18	19	lb.	Maranta St. Vincent sec. . .	2 4	0 9	0 3	16	18	lb.	Sennæ fructus Tinnev. . .	—	0 9	0
24	27	lb.	Mel Ang. . .	3 4	1 0	—	18	32	lb.	Shellac aurant. . .	2 10	1 1	0
15	22	lb.	Mel Calif. . .	2 7	0 9½	—	30	30	lb.	Soda caust. (stk.) pur. P. II (15) . .	3 9	1 2	0
12	24	lb.	Mel Imp. . .	2 11	0 11	—	5	6	lb.	Sodii bicarb. opt. pulv. . .	0 9	0 3	0
10	14	lb.	Mel W.I. . .	1 6	0 6	—	5	5.5	lb.	Sodii carbonas cryst. . .	0 8	0 3	0
19	26	lb.	Mel boracis . . .	—	0 11½	0 3	8	9	lb.	Sodii carbonas exsic. . .	1 0	0 4	0
15	24	lb.	Mel depuratum . . .	3 0	0 10	—	3	4	lb.	Sodii carbonas coml. . .	0 6	0 2	—
28	39	lb.	Mel rosæ . . .	—	1 4½	0 4½	21	22	lb.	Sodii chloras . . .	1 3	0 6	0
18	23	oz.	Metol . . .	—	—	2 10	31	40	lb.	Sodii citras . . .	—	1 4	0
4.5	12	lb.	Naphthalin coml. flake . .	1 5	0 5	0 1½	3	5.5	lb.	Sodii hyposulphitis (photog.) . .	0 8½	—	—
4.5	12	lb.	Naphthalin coml. glob. . .	1 5	0 5	0 1½	18	23	lb.	Sodii et potass. tart. pulv. . .	—	0 10	0
36	30	oz.	Ol. amygd. Ang. ess., s.a.p. . .	—	—	3 9	4.5	5	lb.	Sodii silicatis solut. (wgt.) . .	0 8	0 3	—
66	90	lb.	Ol. amygdalæ Ang. . .	—	3 2	0 10	5	6	lb.	Sodii sulphas, "pea" . .	0 9	0 3	0
54	84	lb.	Ol. amygdalæ dulc. exot. . .	—	3 0	0 9	5	6.5	lb.	Sodii sulphas, "feathery" . .	0 9	0 3	0
96	96	gal.	Ol. animalis . . .	1 3	0 5	0 2	6	7	lb.	Sodii sulph. pulv. . .	0 11	0 3	—
72	96	lb.	Ol. anisi . . .	—	3 6	0 11	81	93	lb.	Spt. camphoræ . . .	—	3 2	0 10
10	14	lb.	Ol. arachis . . .	—	0 7½	0 2	102	108	lb.	Spt. juniperi . . .	—	—	1 2
20	27	lb.	Ol. carbolisat., 5% . .	—	1 0	0 3	300	432	lb.	Spt. rosmarini exot. . .	—	—	3 9
18	22	lb.	Ol. carbol. (vet.), 5% . .	2 9	0 10	—	72	75	gal.	Spt. sick-room (surgical) . .	—	pint:	1/3—
10	14	oz.	Ol. caryophylli . . .	—	—	2 0	53	41	gal.	Spt. vini meth. 64 o.p. (min'l) . .	—	pint:	9d.
36	102	lb.	Ol. eucalypti opt. . .	—	3 10	1 0	5	7	lb.	Sulphur rotundum . . .	0 11	0 3	0 1
48	75	oz.	Ol. juniperi bacc. Ang. . .	—	—	10 6	6	7.5	lb.	Sulphur sublimatum . . .	1 0	0 3½	0 1
7	24	oz.	Ol. juniperi bacc. exot. . .	—	—	3 4	30	31	lb.	Syr. fici co. . .	4 6	1 7	0 6
28	32	oz.	Ol. lavandulæ . . .	—	—	4 7	17	22	lb.	Syr. rhei . . .	—	1 0	0 3
24	28	oz.	Ol. lavandulæ No. 2 . .	—	—	3 11	17	20	lb.	Syr. rhæados . . .	—	1 0	0 3
26	26	oz.	Ol. lavandulæ Gall. . .	—	—	3 6	25	29	lb.	Syr. sennæ Alex. . .	—	1 5	0 5
132	192	lb.	Ol. lavandulæ spic. ver. . .	—	6 9	1 9	19	23	lb.	Syr. sennæ . . .	—	1 2	0 4
120	168	lb.	Ol. lavandulæ spic. coml. . .	—	5 10	1 5	13	26	lb.	Syr. tolutanus . . .	—	1 3	0 4
19	35	oz.	Ol. limonis . . .	—	—	4 10	17	20	lb.	Syr. violæ . . .	—	1 0	0 3
90	96	gal.	Ol. lini opt. . .	pint	1 7	0 2½	16	19	lb.	Syr. zingiberis. . .	—	1 0	0 3
24	32	oz.	Ol. menthæ pip. redest. . .	—	—	3 3	46	50	lb.	Tr. arnicæ flor. . .	—	1 9	0 5
14	18	lb.	Ol. neatsfoot . . .	2 2	0 9	0 2½	78	84	lb.	Tr. benzoini co. . .	—	2 10½	0 9
—	192	gal.	Ol. olivæ (pool) . . .	2 9	0 10	0 3	—	40	lb.	Tr. benzoini simp. (meth.) . .	—	1 5	0 5
15	15	oz.	Ol. pulegii exot. . .	—	—	3 8	36	60	lb.	Tr. ipecacuanhæ . . .	—	2 0	0 6
72	108	gal.	Ol. rapii . . .	1 5	0 6	0 2	96	102	lb.	Tr. myrrhæ . . .	—	3 8	1 0
14	17	lb.	Ol. ricini (first) . . .	2 1	0 8½	0 2½	104	114	lb.	Tr. myrrhæ et boracis B.P.C. . .	—	4 1	1 1
84	84	gal.	Ol. ricini (cattle) . . .	pint 1/6	gal. 10/6	—	288	384	lb.	Tragacanthæ pulv. opt. . .	—	—	3 5
11	15	lb.	Ol. sesami . . .	1 10	0 8	0 2	276	288	lb.	Tragacanthæ pulv. sec. . .	—	—	2 2
20	24	lb.	Ol. succini rectificatum . .	—	1 3	0 4	20	30	lb.	Ulmī fulvæ corticis pulv. . .	—	1 9	0 4
57	90	gal.	Ol. terebinthinæ . . .	pint:	1 6	0 2	16	19	lb.	Ung. acidi borici . . .	—	0 10½	0 3
27	30	lb.	Ossis. sepæ pulv. subtil. . .	—	1 2	0 4	84	96	lb.	Ung. aquæ rosæ . . .	—	3 5	0 10
12	20	lb.	Oxymel scillæ . . .	3 3	1 0	0 3	22	38	lb.	Ung. eucalypti . . .	—	1 5	0 4
132	144	100	Papaveris capsulæ Ang. . .	each:	0 3½	—	51	81	lb.	Ung. gallæ c. opio . . .	—	—	0 10
12	13	lb.	Papaveris capsulæ contus. . .	1 9	0 6	—	24	36	lb.	Ung. hydrarg. ammoniati . .	—	1 4	0 4
10	16	lb.	Paraffinum liquidum . .	1 10	0 8	0 2	22	28	lb.	Ung. hyd. ammoniati dil. . .	—	1 1	0 3
12	15	lb.	Paraffinum molle album . .	1 10	0 8	0 2	51	90	lb.	Ung. hydrarg. co. . .	10 9	3 2	0 10
8	11	lb.	Paraffin molle flavum . .	1 4	0 4½	0 1½	39	66	lb.	Ung. mercuriale ("Trooper") . .	—	2 4	0 7
12	17	lb.	Potassii bicarbonatis pulvis . .	—	0 8½	0 2½	34	48	lb.	Ung. methyl salicyl. dil. . .	—	1 9	0 5
14	18	lb.	Potassii bichrom. coml. . .	2 3	0 8	0 2	63	90	lb.	Ung. methyl salicyl. co. . .	—	3 2	0 10
34	45	lb.	Potassii bromidum gran. . .	—	1 6	0 4½	19	24	lb.	Ung. phenol. . .	—	0 11	0 3
14	19	lb.	Potassii carbonas . . .	—	0 9	0 2½	20	26	lb.	Ung. resinæ . . .	—	1 2	0 4
8	16	lb.	Potassii carbonas coml. . .	2 0	0 10	0 3	15	18	lb.	Ung. sulphuris . . .	—	0 8	0 2
14	24	lb.	Potassii chlorat. pulvis pur. . .	—	0 11	0 3	16	18	lb.	Ung. zinci oxid. . .	—	0 8	0 2
33	48	lb.	Potassii ferricyanidum coml. . .	5 10	1 8	0 5	24	30	lb.	Ung. zinci c. ol. ricini . .	3 3	1 0	0 3
13	36	lb.	Potassii ferrocyandidum coml. . .	4 4	1 3	0 4	20	23	lb.	Ung. zinci c. ac. borici . .	6 1	1 10	0 3
13	13	lb.	Potassii metasulphis . . .	1 8	0 6	0 2	14	12	lb.	Zinci oxidum . . .	1 8	0 7	0 2
15	16	lb.	Potassii nitras . . .	2 0	0 8	0 3	12	12	lb.	Zinci oxid. c. amylo . .	1 6	0 6	0 2
7	10	lb.	Potassii nitras coml. . .	1 3	0 5½	0 1½	10	11	lb.	Zinci sulphas . . .	1 3	0 5	0 2
20	36	lb.	Potassii permanganas . . .	—	1 3	0 4	10	15	lb.	Zingib. rhiz. Afric. pulv. . .	1 9	0 8	0 2
6	8	lb.	Potassii sulphas coml. . .	0 11	0 3½	0 1	9	14	lb.	Zingib. rhiz. Afric. pulv. crs. . .	1 9	0 8	0 2
19	28	lb.	Potassii tartaras acidus . .	3 5	0 11	0 3	30	34	lb.	Zingib. rhiz. Jam. opt. . .	—	1 3	0 4
32	36	lb.	Pulv. aloes Cap.c. canella . .	—	1 4	0 4	30	35	lb.	Zingib. rhiz. Jam. pulv. opt. . .	—	1 3	0 4

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

JULY 27
1940

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LEICESTER.—Wanted active Unqualified Assistant for Dispensing and Counter. State experience, age, height, reference and salary expected. Applications not replied to in four days, please consider declined. CDB/153, Office of this Paper.

STOKE-ON-TRENT (Suburb). Wanted Qualified Assistant, Lady or Gentleman, Permanency. State age, height, experience, salary required in first letter, enclosing snap if possible. 311/6, Office of this Paper.

ASSISTANT PHARMACISTS (two) required by Middlesex County Council at (1) Redhill County Hospital, Edgware, and (2) North Middlesex County Hospital, Silver Street, Edmonton, N.18. Must hold one of qualifications of Pharmaceutical Society. Salary £200, rising to £250 p.a. plus war bonus. Whole time duties under Medical Superintendent and Pharmacist. Unestablished, subject to medical exam. Application to Medical Supt. "L.I" of hospital desired. No application forms. Relationship to any member or officer of Council to be disclosed. Copies of not more than 3 recent testimonials. Canvassing directly or indirectly will disqualify. Closing date 3rd August.

LADY, Assistant Dispenser, Book-keeper, for firm of Doctors, experienced. Practice in Thames Valley. Apply at once with references and full particulars to 311/9, Office of this Paper.

LADY, experienced Drug and Toilet. Dispensing an asset, but not essential. State age, experience, salary desired, when free. Durbins, Chemists, Kingston-on-Thames.

QUALIFIED Assistant (male or female), age 25-30, required immediately for high-class dispensing and family business, must be a reliable dispenser and had good counter experience. Apply with full particulars: Eardley & Furnival, 265 Fulwood Road, Sheffield, 10.

TIMOTHY WHITES & TAYLORS have vacancies for Qualified Managers in London and South of England. Applicants should be energetic, not under 25 years of age and capable of staff control. Apply by letter giving full particulars to Retail Staff Dept., Timothy Whites & Taylors, Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

UNQUALIFIED Junior required shortly for high-class Dispensing Business, one just out of apprenticeship preferred, must have had sound training in private dispensing. Apply stating salary required, to Righton, Chemist, Lord Street, Southport.

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CAMBRIDGE. Wanted by August (12th) an experienced, fully qualified Chemist Optician (O.B.A.C., etc.) for 3 months at least. Good class, easy hours. Out-doors. Preferably one with view to Partnership or immediate succession. Apply giving full particulars. Evans (Flanders), 92a Mill Road.

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ASSISTANT (37), unqualified, many yrs. exp. high-class Continental pharmacy & dispensing, fluent French, seeks post, London or district preferred. P.C.B., 344/7, Office of this Paper.

COMPETENT, Active Assistant, available now, for good-class business, over military age, dispensing, optics, surgical, expert photo; present berth four years (display specialist). 312/10, Office of this Paper.

LADY Dispenser Book-keeper (Hall) seeks situation (23), thoroughly experienced, good references, doctor or hospital preferred. 312/5, Office of this Paper.

PHARMACIST, at present Manager in an evacuation area, requires new position, 10 years' varied experience, married, age 27, height 6 ft.—A. W. Dobbs, 9 Queen Street, Ramsgate.

QUALIFIED experienced lady Dispenser requires post in Midlands. (Hall Certificate.) Billson, 15 Belle Acre Close, Compton, Plymouth.

QUALIFIED Hall Dispenser, age 23, requires post in hospital or institution, either as a locum or permanency. 311/7, Office of this Paper.

QUALIFIED Lady Manageress requires Managership with good living accommodation. Country preferred but not essential; 20 years Practical Pharmacy, 10 years Management. Experienced all round; first-class references; free. 311/10, Office of this Paper.

QUALIFIED (34), 10 years West End, etc. Full or part-time anywhere, married, accommodation optional. 3 Greenhill Road, Harrow.

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ASSISTANT (24) Unqualified (exempt military service), requires temporary position, North London area preferred. Free until October. Reliable dispenser with high-class experience. Johnson, 26a Warwick Road, New Barnet, Herts.

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EXAMINATION RESULTS

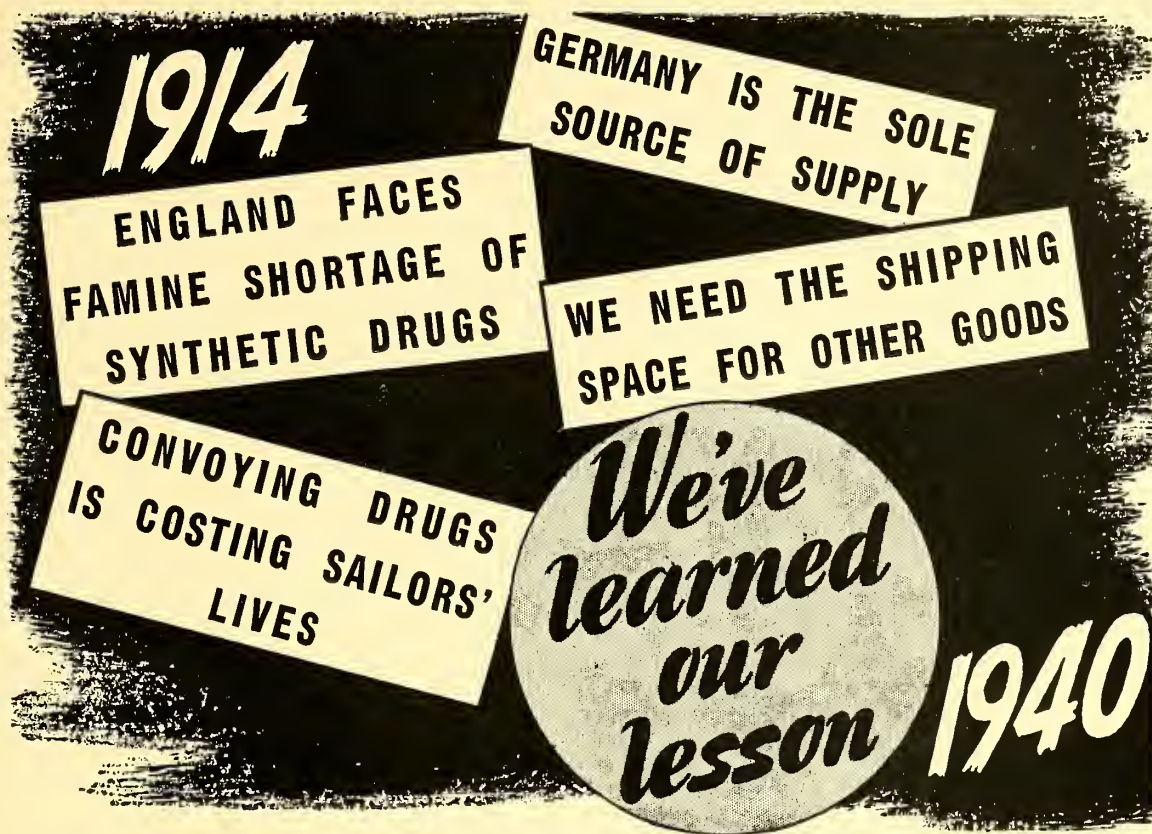
The following are the results of the examinations of the Pharmaceutical Society held in London in July:—

Examination	Entered	Absent	Failed	Referred (One Subject)	Passed
Preliminary Scientific:—					
(a) Whole Examination	192	4	64	69	55
(b) Referred Subject ..	44	—	—	24	20
C. and D. Qualifying:—					
(a) Whole Examination	324	2	120	81	121
(b) Referred Subject ..	42	—	—	21	21

CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

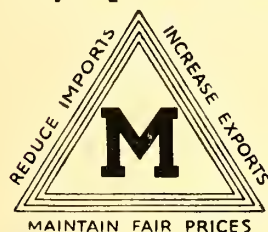
The following were successful:—

Abel, W. K. J., Cromer	James, E. F., Colchester
Adkinson, H. B., Southgate	Jenkins, A. T., Aberystwyth
Aldred, G. W., Grimsby	Jernyn, R. H., E. Harling
Alves, J. R., Walsall	Jones, S. A., Llanelly
Andrews, F. T., Driffild	Kaye, G. A., Huddersfield
Ashwell, S., Stevenage	King, T. G., Hornsey
Askam, V., Barnsley	Knight, R. E., Parkstone
Attenburrow, Ellen, Melton	Leigh, J. C., Liverpool
Mowbray	Leonard, J. N., Grimsby
Bacon, R. A. M., Great Yarmouth	Lennox, G., Barry Dock
Badham, R. G., Cheltenham	Lewis, K. T., Carnarthen
Baker, J. C., Thetford	Lipman, C. E., Harrogate
Baldock, G. M., Gillingham	Lloyd, T. J., Ystrad Meurig
Baldwin, Molly J., Bournville	Lovatt, N., Skegness
Ball, A., East Kirkby	MacEwan, E. P., Oakham
Ballard, J. W. H., Bourne-mouth	Marshall, W. W., Ilkeston
Barbar, J. W., Sheffield	Marwood, J., Oldham
Baumber, C. F., Alford	Masterson, F. W. R., Northfleet
Beckenhams, J. C., Brentford	Meadows, R. P., Cambridge
Berry, R. J., Southampton	Middlehurst, F., Accrington
Bessant, I. R., Guildford	Miller, G. C., Blackburn
Bloomfield, J. C., Portsmouth	Millichap, J. G., Wellington
Bolover, Muriel E., Sheffield	Mills, G. J., Sheffield
Bowden, E. G., Neath	Moorhouse, B. D., Bramhall
Bowler, S. T., Cardiff	Morris, W. C., S. Woodford
Breakwell, L., Wolverhampton	Murphy, M., Salford
Briggs, Muriel A., Pontypool	Offer, D. E., Beeston
Brown, E. M., Glossop	Organ, Joan G., Rhyl
Burton, J. T., Epsom	Penny, C. W., Dagenham
Carter, E., Ashton-under-Lyne	Perez, B., Brixton
Channing, F., Barrow-in-Furness	Peretz, S. M., Guernsey
Chapman, G. H., Manchester	Pierce, E. W., Leighton Buzzard
Cheshire, Mary W., Grantham	Pimm, H. J., Birmingham
Clarke, F., Manchester	Porter, L., Grimsby
Clarke, P. H., Romford	Prentice, S. R., Coggleshall
Coward, H. A., Thetford	Pryce, D. W., Ammanford
Crichton, P. V., Maidstone	Rash, H. N., Ealing
Cummins, Gertrude A., Bristol	Rayner, A., Clacton
Darby, F. O., Norwood	Redfern, S., Buxton
Davies, J. D., Haverfordwest	Richards, W. B., Ammanford
Dean, D. W., Burton-on-Trent	Ridgeway, R. A., Exmouth
Diaper, G. E., Ipswich	Robinson, R., Darwen
Doughty, Leonora E., Borough	Rockley, Lily I., Sherwood
Edyvean, D., Honiton	Rowe, Eileen M., Muswell Hill
Edyvean, R. H. J., Lincoln	Saunderson, A. W., Sheffield
Ellis, Barbara E., Coventry	Shaw, B. L., Bromley
Farag, W. G., Cairo	Sherriff, C. H., Buxton
Fell, J. W., Maxey	Smith, J. B., Bournemouth
Ford, T. H., Sheffield	Smith, J. L., Stoke-on-Trent
Foskett, H. M., Kenton	Stafford, G. H., Plymouth
Goodall, E. J. G., Gunnersbury	Stirling, R. J. T., Douglas
Grant, D., Bournemouth	Stocks, R. M., Newport
Greatorex, J. H., Derby	Tannahill, J. S., Ladybrand
Gregory, L. H., Hindley	Thacker, E. B., Cannoek
Griffiths, J., Swansea	Thomas, G. F., Portsmouth
Gritton, W. A., Stoke-on-Trent	Thomas, G., Pontardulais
Hadley, T., Treharris	Thorne, F., Jersey
Hancock, H. N., Hackney	Thorne, W. H., Taunton
Harrison, W. J., Swansea	Trelogan, H., Philadelphia
Hartley, A. R. G., Blackpool	Tuff, H. J., Gravesend
Hay, T. D., Rhondda	Tuffield, F. P., Halstead
Heather, P., Elburton	Vaughan, L. A., Catford
Hindle, J. E., Hull	Ward, F. D. P. H., Northampton
Holcombe, C. D. R., Minehead	Ward, H. A., Thetford
Holland, L. G., Mansfield	Ware, D. A., Plymouth
Howells, J. E., Fishguard	Warr, D. V., Southsea
Huckerby, F. W., Newark	Watson, D. E., Canterbury
Huggett, R. V., Bristol	Wetton, G. J., Brierley Hill
Hutchings, H. L. R., Sherborne	Weyman, E., Mile End
	Widdowson, T. I., Eastbourne
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	Williams, R., Treherbert
	Windwood, E. S., Shepherds Bush
	Woods, J., Accrington



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